

January 1960

CONCRETE



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**"Analysis of our test reports shows
POZZOLITH gives better control of quality"**

FRANK P. SPRATLEN, JR., President,
Ready-Mixed Concrete Company of Denver,
Denver, Colorado.



BUDD SPRATLEN, Vice President and General Manager, and **Bob McCabe**, Control Engineer, both of Ready-Mixed Concrete Co. of Denver ... and **Bob Florey**, Master Builders field man, analyze test data.

"We thoroughly analyze all the independent inspection reports and test results of our concrete delivered on specification jobs as a guide to quality control.

"A recent series of tests showed our plain concrete easily met all strength requirements ... and had less than a 10% coefficient of variation. We have a right to be proud of that quality of concrete. And with POZZOLITH—we get 40% more uniformity ... using the same good materials, same modern equipment and highly-trained personnel. This greater uniformity also shows up in better control of slump and air entrainment with the POZZOLITH mixes.

"I've also noticed there's less shrinkage and cracking in the hardened concrete made with POZZOLITH.

"It's for these reasons that we recommend our POZZOLITH ready-mixed concrete to customers and to the architects and engineers who design the fine, new work in the Denver area."

Over 1500 quality conscious producers of Ready-Mixed concrete and concrete products are using POZZOLITH for similar reasons. They've found there's no equal to POZZOLITH ... and to Master Builders field service. You and your customers can profit immediately. Call in the local field man now.

*The Master Builders Company, Cleveland, Ohio
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READY-MIXED CONCRETE COMPANY OF DENVER produces high quality specification concrete for important jobs like this King Supermarket project. General Contractor, Perlmutter Construction Company • Architect, Ralph Peterson & Associates, both of Denver.

MASTER BUILDERS[®] POZZOLITH^{*}

*POZZOLITH is a registered trademark of The Master Builders Co. for its concrete admixture that helps produce better quality ready-mix concrete more economically.

They look alike, but...

sell Dur-o-wal to keep them alike!

Two masonry walls: They can be twins in surface charm and solidity. Yet, one can be the better building investment—free of maintenance problems for important extra years. That's the one built with Dur-o-wal.

When you sell Dur-o-wal masonry wall reinforcement, you're selling not just a structural device, but first-rate *building investment protection*—something in which every man who puts money into building is naturally

interested. Tell 'em! You'll sell 'em!

A wall reinforced every second course with Dur-o-wal has 71 per cent greater flexural strength than its unreinforced counterpart. With its trussed design, butt-welded construction, scientifically deformed rods, Dur-o-wal is considered the most practical thing of its kind by builders everywhere. A stock of Dur-o-wal is a good investment for you, wherever you do business.

DUR-O-WAL®

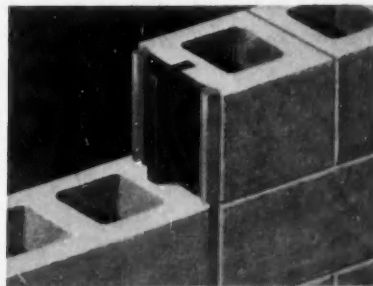
Masonry Wall Reinforcement and Rapid Control Joints

RIGID BACKBONE OF STEEL FOR EVERY MASONRY WALL

Dur-O-wal Div., Cedar Rapids Block Co., **CEDAR RAPIDS, IA.** Dur-O-wal Prod., Inc., Box 628, **SYRACUSE, N. Y.** Dur-O-wal Div., Frontier Mfg. Co., Box 49, **PHOENIX, ARIZ.** Dur-O-wal Prod., Inc., 4500 E. Lombard St., **BALTIMORE, MD.** Dur-O-wal of Ill., 119 N. River St., **AURORA, ILL.** Dur-O-wal Prod. of Ala., Inc., Box 5446, **BIRMINGHAM, ALA.** Dur-O-wal of Colorado, 29th and Court St., **PUEBLO, COLO.** Dur-O-wal Inc., 165 Utah Street, **TOLEDO, OHIO**



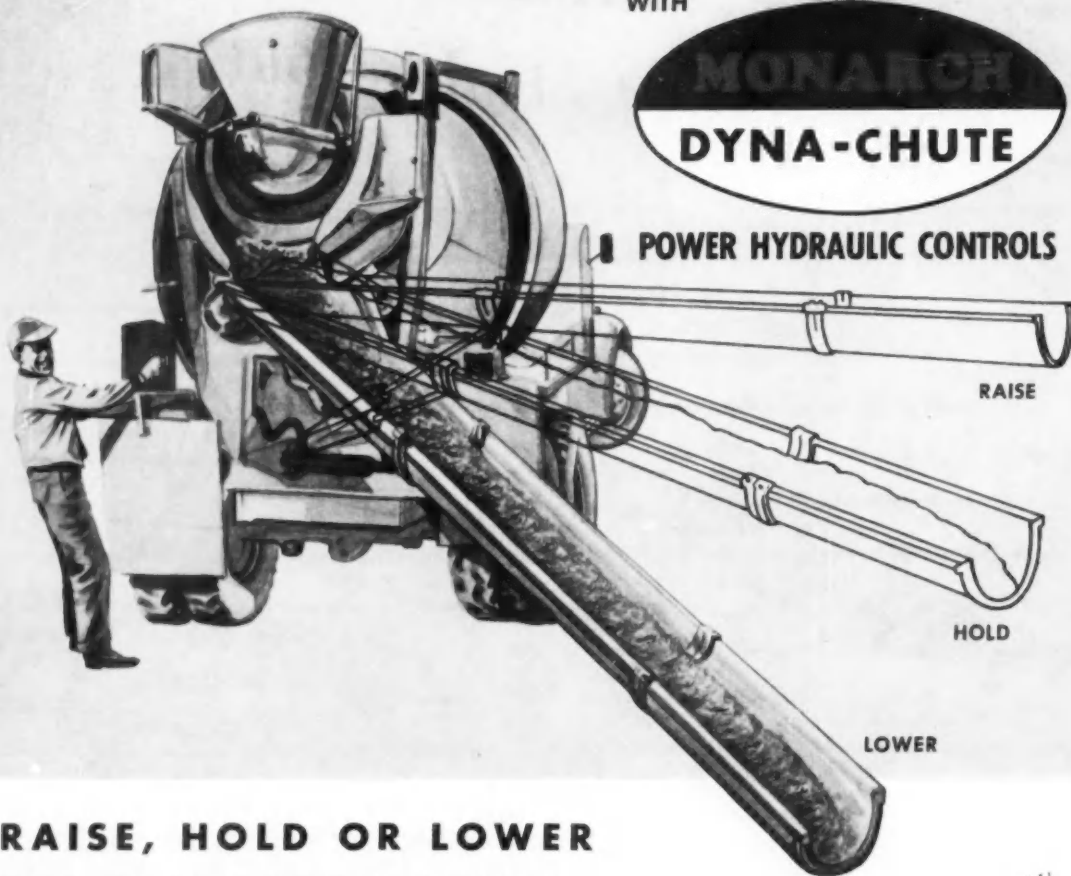
Two engineered products that meet a need. Dur-o-wal reinforcement, shown above, and Rapid Control Joints, below. Weatherproof neoprene flanges on the latter flex with the joint, simplify the caulking problem.



SPEED CONCRETE DELIVERIES — CUT COSTS

WITH

**MONARCH
DYNA-CHUTE**



**RAISE, HOLD OR LOWER
THE DISCHARGE CHUTE...
IN SECONDS, AUTOMATICALLY!**

It's Coming Your Way

Dyna-Chute lifts or lowers the loaded discharge chute to the required height with ease and speed . . . and then holds it where you want it! The one-man, one-handle control assures action that is fast, safe and dependable.

More than 12,000 installations prove it — profit-minded ready-mix operators coast-to-coast certify to Dyna-Chute's performance! Faster deliveries with Dyna-Chute gain an additional delivery per truck each day. What's more, the driver can do the

whole job by himself . . . no need to wait while help is recruited. Consider also the safety advantage.

Dyna-Chute is available as a complete Control ready to install. All necessary parts are included to fit standard makes of mixers. Modernize your existing ready-mix trucks with Dyna-Chute . . . specify Dyna-Chute for your new units. See your dealer. Send for free folder giving full details.

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CONCRETE

For producers of concrete block, precast and prestressed concrete products and ready mixed concrete

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Radistres—New Prestress Method 16

Radial prestressing designed to make possible production of extra-large, thin, strong panels.

Meeting Roundup 20

A condensed report on meetings held recently by ESCSI, CMA, ASTM in Canada, California.

Get Tax Savings 23

Using the speed up depreciation method can save you money when tax time rolls around.

How To Get Safety Materials 25

Nylon Replaces Mortar in Sweden Idea 24

Editorial 15

News 5

Materials and Equipment 28

The Cover:

Pictured is a view of part of NCMA's reception room in their new Washington, D. C., office. The office is highlighted by effective use of screen units, Shadowal, other industry products.



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TAKE A WALK THRU THE DRUM AT CHICAGO . . . Booth 31, Coliseum

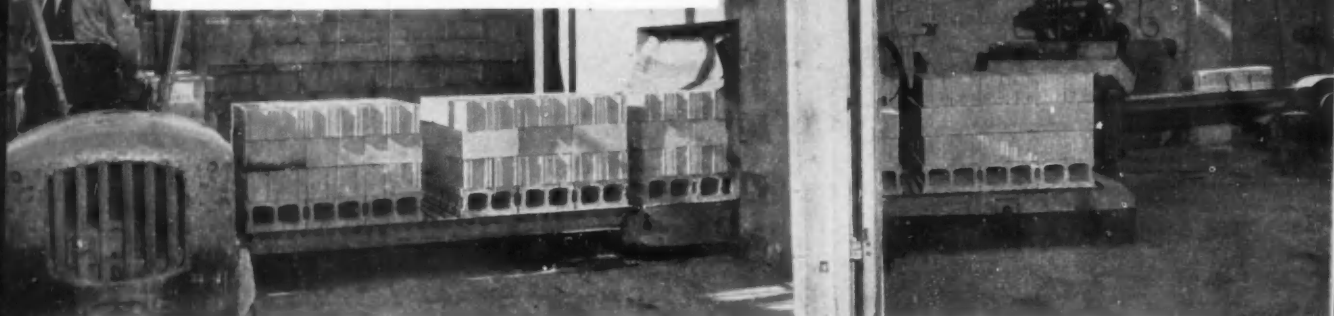
If you can't get to the Ready Mix Show, ask your Jaeger distributor to give you full details of the Jaeger Deep Scoop Model "F" — or write us for new Catalog TMH-O.



An important advancement in the world's fastest truck mixer, giving accelerated mixing action and speed of discharge never seen before.

THE JAEGER MACHINE COMPANY • 522 Dublin Avenue, Columbus 16, Ohio

One of the unique features of the Larson plant is this "all weather" inside-outside cubing arrangement. Using a Columbia cube conveyor that operates through a small wall opening, blocks are cubed inside and then conveyed outside without opening plant doors—giving a complete inside manufacturing process the year around.



"To keep up with sales we needed higher production... So we asked Columbia engineers for these 5 things"



says Mr. Warren Larson, Larson Cement Stone Co., Omaha, Nebraska

Left to right, Barry Larson, Warren Larson, Gerald Lee, Columbia representative, and Clifford L. Larson.

Below, a portion of one of the three Larson storage yards, with conveyor, covered storage bins and cement silo in background.



- 1 to design a plant that would give us day after day production of 9200 8" equivalents.
- 2 utilize the same buildings and steam rooms.
- 3 eliminate the off-bearing bottleneck.
- 4 give us "all weather" inside cubing.
- 5 and—to assure us of a top quality product in keeping with our reputation.

"The result of this planning is a smoothly operating plant, producing high quality, precision block and incorporating a number of unique features specially designed to fit our needs. We are producing high quality, uniform textured concrete block that test in excess of 1500 psi—**AND THE TOTAL MANUFACTURING CYCLE FROM MACHINE TO STOCK PILE IS ONLY 4 HOURS.**"

FREE PLANNING AND DESIGN SERVICE

Helping the plant owner to solve individual problems is an important part of Columbia service. Whether it be designing a plant from the beginning or re-designing to utilize present facilities... (as in the case of the Larson plant) practical engineers, service men and representatives with years of field experience are ready and willing to help you at all times.

On your trip to the NCMA CONVENTION in February—why not plan to stop at some of these outstanding Columbia equipped plants as well as a visit to our factory in Vancouver, Wash. Write us for plant locations.



For complete information call your Columbia representative or write, wire or phone.

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News

Seattle's Pioneer RM Sold to Lone Star

Pioneer Sand & Gravel Co., located in Seattle and one of the largest Northwest operations, has been sold to Lone Star Cement Co., of New York City.

Lone Star, after acquiring all Pioneer stock for an undisclosed sum, will operate the plant as wholly owned subsidiary. The announcement of the sale was made by Pioneer president Gordon Scott and Lone Star executive vice president John Mathis.

Pioneer, founded 52 years ago in a merger with other Seattle firms, does an annual business of \$6 million, with some 100 trucks and 175 employees.

Oskaloosa Concrete Plant Plans Expansion

Oskaloosa (Iowa) Concrete Products Co. began operation only in mid-Summer but already plans expansion and rebuilding. The company, with Kenneth Bailey as president, will install a new two or three block machine for manufacture of Haydite block. Eventually concrete pipe and precast girders may be added.

The company produced some 100,000 block during the first four months of operation, according to Ted Overbergen, general manager.

Clinton To Build • Second Concrete Plant

Clinton Construction Co., of Wilmington, Ohio, plans to build a second plant at Melvin, for production of ready mix concrete. Clinton produces block, brick and ready mix concrete.

The Melvin plant will have a capacity of some 100 cu. yds. per hour, operating with 5½ yd. truck mixers and an Erie Strayer plant including a 250 ton aggregate bin. The site is near aggregate sources on property leased from the Melvin Stone Co.

Company officers include Pres. Frank Hazard, general manager E. E. Osborn, and J. W. Beam. Completion date is April.

The new plant will triple Clinton's output, Hazard says.

Katterjohn Installs 100' Autoclave

Katterjohn Concrete Products Co. has installed an autoclave which company officials said was the largest in the state of Arkansas. Katterjohn's plant is in North Little Rock.

The autoclave reportedly is 10' x 100' and holds some 7,500 block.

New Grafton, N. D. RM Plant Operates

A new \$150,000 plant in Grafton, N. D., began operations in mid-October, with the plant named Ready-Mix Co. producing block and other concrete products.

\$100,000 in Automation Added at Blocklite

An investment of more than \$100,000 has been made in batching, handling, palletizing and steam control equipment at Blocklite Co., Selma, Calif. President W. A. Grindle reports that this makes the company one of only two automated block producers in that state.

In addition to the automatic equipment, a two way radio system was installed in all trucks and salesmen's automobiles. The company also has an office and sales yard in Fresno.

Maule's Animated Display Draws Crowds



Popular with both kids and adults was this Maule Industries animated display at the 1959 Home Show in Miami. The display featured a miniature batcher and a moving mixer truck.

In the background, smaller mixers moved between a typical RM plant and a home under construction. The show was sponsored by the Home Builders Association of South Florida, with attendance of a quarter million people.

News

Okla. RMA Elects Murphy President

C. J. Murphy, president of Oklahoma City's Murphy & Perkins Ready-Mixed Concrete Co., was elected president of the Oklahoma Ready-Mixed Concrete Assoc. at their fourth annual meeting, held in Oklahoma City on Dec. 4.

Other officers elected include Tom O'Dell, as first vice president; W. A. von Unwerth, second vice president; Brunell Saylor and Joe D. Brown as directors, and Joe E. Offutt as executive secretary.

Addresses at the meeting were made by Hal Feraud, executive sec-

retary of the Southern California Ready Mixed Concrete Assoc., and by Edward C. Keefe, executive director of the Oklahoma Independent College Foundation.

Nine new regular members and nine new associate members were introduced.

Neff Joins Marietta Sales Staff

Leo Neff, formerly with the Camden, Ohio firm of Neff & Fry Co., has joined the industrial silo sales representative staff of Marietta Concrete Div., American-Marietta Co., Marietta, Ohio.

Neff will be in charge of Midwest sales, representing the company in the southern parts of Ohio, Indiana and Illinois, and Kentucky and Tennessee.

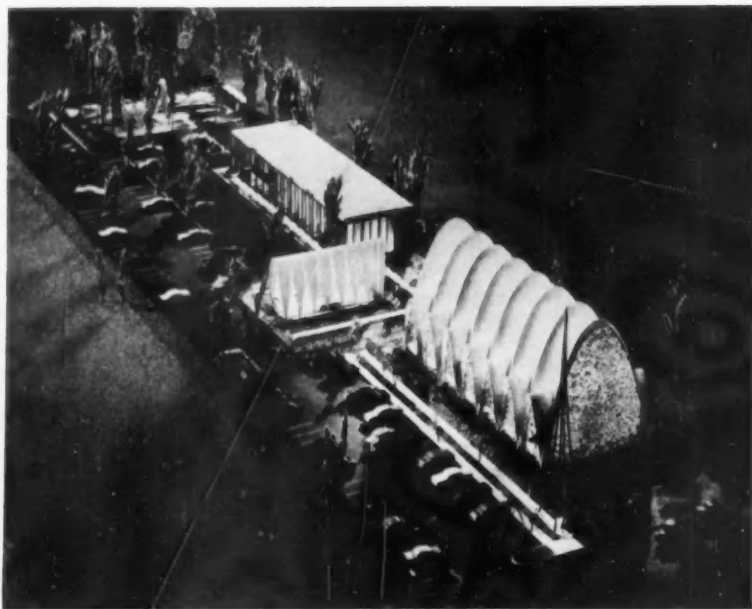
TCMA Distributes Masonry Manual

The Texas Concrete Masonry Assoc. has just finished publication of the Concrete Masonry Information Manual which gives detailed information on basic units, construction details, workmanship, tables of information, technical references, and illustrations of these things.

The 44 page book, listed at \$4.00 per copy including postage and handling, is being sent to architects, general contractors, masonry contractors, engineers and builders throughout Texas by TCMA members.

TCMA has also placed copies in the five schools of architecture in the state, for a total distribution of 3,000 copies. Those outside of Texas who are interested in seeing the book can get it from the TCMA office at P.O. Box 2383, Capitol Station, Austin 11, Tex., at the price above.

Vaulted, Thin Shell Concrete for Calif. Church



A three-structure church construction plan for a \$1.3 million Encino, Calif., church will feature high vaulted, thin shell concrete. A model of the proposed church is shown above.

Plans call for a 60' high vaulted concrete and stained chipped glass sanctuary and a chapel of alternating segments of thin shell concrete and tinted glass. The third, two story fellowship building will be of glass, steel and stone.

Architects and engineers for the Encino Community Church are Welton Becket & Assoc., Los Angeles.

Boston Concrete Building New Plant in Crewe, Va.

Boston Concrete Products Co., of South Boston, Va., is building a new block plant in Crewe, Va., reports William E. Rowland, president. The completely modern plant will have autoclave curing.

Rowland says that a Bergen Trimatic is being installed for block production with the company having tentative plans to later add a line of allied products. The plant will operate as a division of Boston Concrete.

Portland Cement Shipments Decrease in October

Production of finished portland cement in October, 1959, decreased 5% as compared to 1958's similar period. The shipments in 1959 added up to 31.1 million bbls., as compared to 32.2 the previous year.

The Bureau of Mines also reported that stocks of 23.9 million bbls. on hand in October, 1959 were 17% higher than in the previous year.



Maule's Ferre Awarded University Citation

Jose A. Ferre (left), board chairman of Maule Industries, Inc., was awarded a citation as a donor in support of American education, in recognition of the \$200,000 gift his family made to the University of Miami for its new graduate school.

Making the presentation is the university's president, Jay F. W. Pearson.

ASTM Committees To Meet in Chicago

The ASTM Committee Week will be held in Chicago at the Hotel Sherman, Feb. 1-5, including a meeting of Committee C-15 on manufactured masonry units.

New Delta Company Buys H. L. Seabright Co.

The newly formed Delta Concrete Co., Inc., has purchased most of the activities of the H. L. Seabright Co., of Bellaire, Ohio. Delta will supply ready mixed concrete, block, sand, gravel and related items.

Delta will operate the Bellaire plant producing standard and lightweight block, which has capacity production of 24,000 units daily. Four ready mix plants are involved, located in Bellaire, Moundsville, Martins Ferry and Wheeling, Ohio.

Delta officers include John L. Seabright, president and executive manager; Robert Heyl, vice president

and board chairman; Harry Chew, secretary-treasurer; Henry Harris, sales manager.

Seabright, a grandson of the founder of the purchased company, had been a Seabright vice president. Heyl had been a Seabright vice president for 12 years, and Chew had been a Seabright secretary-treasurer for many years.

Joyce Named Sales Rep. for A-M Prestress

W. M. "Mike" Joyce has been appointed a sales representative with the Marietta Concrete Div., American-Marietta Co. Joyce will be responsible for sales development of the company's prestressed concrete and panel wall construction, under the direction of William Curran, sales manager of the company's Engineered Product Div.

Joyce previously had been with Buildex, at Ottawa, Kansas as a sales engineer for the Buildex lightweight concrete products.

John Chase Dies

John S. Chase, 61, president of Chico Building Products and founder of several block plants in Texas, died November 23 after a heart attack suffered while driving in Dallas. He had founded block plants in Dallas, Fort Worth and Waco, and most recently with the Chico firm had been in building materials brokerage.

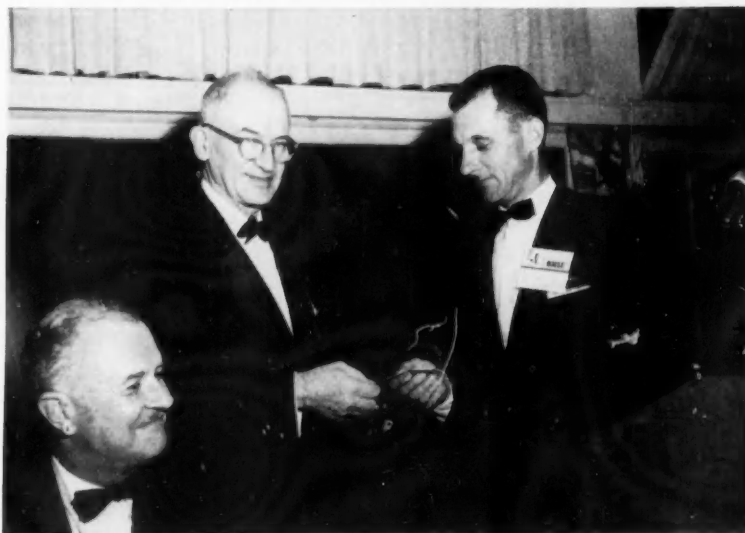
He is a past president and director of NCMA.

Baton Rouge Altex RM Plant Sold

The Altex Ready Mix Concrete Co., of Baton Rouge, La., has been purchased by Roland S. Stevens and W. E. Heck, for a sale price that wasn't disclosed.

The company was organized in 1957 by Wilson P. Abraham and A. A. Linley.

NYSCMA Presents \$1,000 Scholarship Check



For the third year, the New York State Concrete Masonry Assoc. has presented a check in the amount of \$1,000 to the New York State Association of Architects for the Architects Scholarship Student Assistance Fund.

Benjamin H. Palmer, Jr., NYSCMA president (right) is here shown presenting the check to Matthew W. Del Gaudio of the NYSAA.

News

Owen Elected Pres. By Carolinas RM Assoc.

Allan K. Owen has been elected president of the Carolinas Ready Mixed Concrete Assoc., at the annual meeting held in Asheville on Oct. 18-20. Owen is president of Piedmont Construction Co., Winston-Salem, N. C.

Other officers elected were Ray Manieri, of F. D. Lewis & Son, Greensboro, vice president; John T. Salmon, Sanford Ice & Coal Co., Sanford, treasurer; and R. O. Evans, Concrete Supply Co., Charlotte, as secretary.

Speakers at the meeting included NRMCA president F. E. Schouweiler and NRMCA executive secretary Vince Ahearn.

Three Besser-Filled Cars for Superlite



Three railroad flatcars were required to ship an initial order of two Besser Vibrapacs and four 50-cu. ft. Besser Batch Mixers to a new plant being opened in Tempe, Arizona by Superlite Builders' Supply Company of Phoenix.

Superlite's main plant in Phoenix is reputed to be the world's largest concrete block plant. Operating 12 Vibrapacs there, the company claims a capacity of 240,000 block per day.

Prestressed Short Course Feb. 1-3 at Univ. of Florida

The Third National Prestressed Concrete Short Course will be held from Feb. 1-3 at the University of Florida, Gainesville, sponsored by the Prestressed Concrete Institute and the University's Dept. of Civil Engineering.

Topics will include specifications, quality control and design of bridges, industrial buildings and unusual structures, long span design and continuous beam designs.

The course is intended for practicing engineers and architects, and prestress producers.

PCA Elects Five New Directors

The Portland Cement Association at its annual meeting in Chicago elected five new members to its Board of Directors.

The new directors are: Chester S. Crawford, president, Whitehall Ce-

ment Manufacturing Co., Philadelphia, Pa.; L. R. Forbrich, general manager, Green Bag Cement Division, Pittsburgh Coke and Chemical Co., Pittsburgh, Pa.; Ellroy King, president, Halliburton Portland Cement Co., Corpus Christi, Texas; Frank B. Warren, president, Bessemer Limestone and Cement Co., Youngstown, Ohio; W. S. Ziegler, president, Saskatchewan Cement Co., Ltd., Regina, Sask., Canada.

Nov. Paving Yardage

PCA reports that the awards of concrete pavement by classification for November, 1959 were 2.9 million cu. yds. for roads; 2.0 million cu. yds. for streets and alleys; 390,136 for airports, for a total of 5.3 million cu. yds. for the month.

Complete total yardage poured for the first 11 months of 1959 amounted to 87 million cu. yds.

Indiana Strike Over

The Lake County (Ind.) ready mix concrete association and the Teamsters union came to terms in mid-November, ending a 13 week shutdown.

Terms called for a guaranteed 8 hour work day, and average wage increases of 16c an hour during the first year of the contract. The settlement terms are retroactive to the time the strike began, July 1.

Until July 1, 1960, the 8 hour day will be granted by seniority; after, it is guaranteed regardless of seniority. Employers contributions to the insurance plan were increased.

Durox Plant Being Built in San Bernadino

Ground has been broken and construction started for a new Durox precast plant in San Bernadino, Calif. The plant will cost some \$325,000, with total cost including site and equipment near \$1 million.

New RM Plant Planned for Marshall, Mo.

A ready mix concrete plant is planned for Marshall, Mo., with the parent company being the Saline County Asphalt Co. Herbert Ridge will manage the plant. Construction dates weren't announced as yet.

San Diego Prestress Appoints Libby SM

James R. Libby has been appointed sales manager for the San Diego (Calif.) Prestressed Concrete Co., according to an announcement by M. R. Montgomery, general manager.

New Construction Seen Declining Slightly In 1960

"A decline in the total dollar value of new construction appears to be in the offing for 1960—the first year-to-year setback since World War II," The Value Line Investment Survey states.

The decline will be small, the Survey thinks, and will occur because prospective increases in non-residential building are not likely to be quite big enough to offset the estimated 15% dip in residential housing starts caused by tight mortgage conditions. And residential building accounts for around 40% of the total construction industry.

No easing of the current credit stringency is expected, the Value Line Survey continues, as long as the general business boom is still in process. Moreover, because of the normal 6-to-8 month lag between money market changes and their impact upon home building, any action to increase the availability of mortgage funds would probably have little effect on housing activity before the end of next year at the earliest.

To a considerable extent offsetting the decline in housing, The Value Line Survey expects 1960 to see the highest level of new capital spending by business since 1957. Outlays on highways, spurred by the 13-year federal road-building program, should hold next year at about the record level attained this year. Spending in all other public categories is expected to rise on balance.

Three Win \$400 in Solite Prizes



Three architecture students at Clemson (S. C.) College won a total of \$400 in prizes at the third annual Solite Awards Competition. Winners were Frank Lucas (first), John A. Parille, and Benjamin Pearce, from left to right. Awards were presented by Dean Harlan McClure. The awards are made for designs in Solite masonry units and structural concrete.

Calendar . . .

**JANUARY
13-14,
1960**

Wisconsin Concrete Products Assoc. — 40th annual convention — Plankinton Hotel, Milwaukee, Wis.

**JANUARY
17-21
1960**

National Association of Homebuilders — Annual Convention — Conrad Hilton and Sherman Hotels, Coliseum, Chicago, Ill.

**JANUARY
19-20
1960**

Ohio Concrete Block Association — Seventh Annual Convention — Commodore Perry Hotel, Toledo, Ohio.

**JANUARY
18-20
1960**

Ready Mixed Concrete Association of Wisconsin — Annual State Convention — Plankinton Hotel, Milwaukee, Wis.

**FEBRUARY
15-18,
1960**

National Sand & Gravel Assoc. and National Ready Mixed Concrete Assoc. — Combined Biennial Show — The Coliseum and Conrad Hilton Hotel — Chicago, Ill.

**FEBRUARY
22-24,
1960**

National Concrete Masonry Association — 40th Annual Meeting — Hotel Statler, Los Angeles, Calif.

**FEBRUARY
21-24
1960**

Mason Contractor's Association of America — Tenth Annual Convention — Netherland Hilton Hotel, Cincinnati, Ohio.

**MARCH
14-17
1960**

American Concrete Institute — 56th Annual Meeting — Commodore Hotel, New York City.

**MARCH
23-24,
1960**

Iowa Ready Mixed Concrete Assoc. — Annual Convention — Hotel Kirkwood, Des Moines, Iowa.

**APRIL
4-6
1960**

Autoclave Building Products Association — Annual Meeting — Dinkler Plaza Hotel, Atlanta, Ga.



Biennial Show

CHICAGO • FEBRUARY 15-19, 1960

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- ! **ACRES OF NEW IDEAS** to benefit your business.
- ! **SHOW DAYS:** Monday and Tuesday, February 15-16, are Show days. Show continues Wednesday, closes Thursday.
- ! **CONVENTION DAYS:** Wednesday, Thursday, Friday.
- ! **GIVES YOU 2 FULL SHOW DAYS** free from Convention meetings.
- ! **ALL REGISTRATIONS** in Exposition Hall Lobby of Conrad Hilton, starting Friday, February 12. Registration and Show admission free to *producers and users* of sand, gravel and ready mixed concrete.

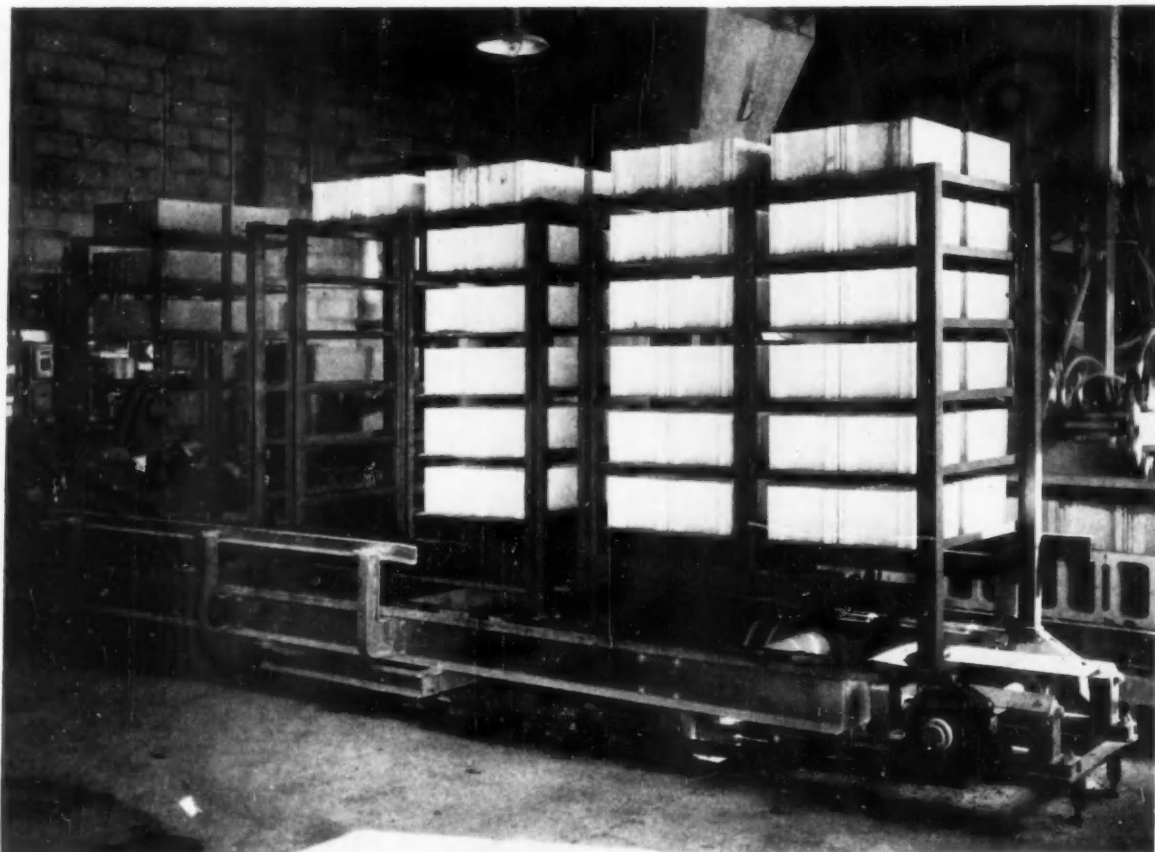
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 Autolene Lubricants Co.
 Baldwin-Lima-Hamilton Corporation
 Barber-Greene Co.
 Blaw-Knox Company Construction Equipment
 Bucyrus-Erie Co.
 Building Supply News
 Burkhart Engineering Associates, Inc.
 Butler Bin Co.
 C & W Sales Co., Inc.
 Calcium Chloride Institute
 J. I. Case Co.
 Caterpillar Tractor Co.
 Chain Belt Co. Bin and Batcher Div.
 Chain Belt Co. Construction Machinery Division
 Chain Belt Co. Industrial Div.
 Chevrolet Motor Div. General Motors Corp.
 Chicago Fly Ash Co.



what these blue-ribbon exhibitors offer to help you make money

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Concrete Controls Corp.	General Electric Co. Communications Products Department	Manitowoc Engineering Corporation	Sauerman Bros., Inc.
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Concrete Transport Mixer Co.	Gründler Crusher & Pulverizer Co.	Massey-Ferguson Industrial Division	R. H. Sheppard Co., Inc.
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Cross Perforated Metals Plant	The Heltzel Steel Form & Iron Company	Modern Concrete	Soiltest, Inc.
Cummins Engine Co., Inc.	Hendrick Manufacturing Co.	Monarch Road Machinery Company	The Solvay Process Div. Allied Chemical Corp.
Frank D. Davis Co.	Hendrix Manufacturing Company, Inc.	Morris Machine Works	R. L. Spillman Co.
Deister Machine Co.	Hercules Galion Products, Inc.	Motorola Communications & Electronics, Inc.	Stedman Foundry & Machine Co., Inc.
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The Detroit Edison Co.	The Frank G. Hough Co.	National Conveyor & Supply Co.	Symons Clamp & Manufacturing Co.
Dewey & Almy Chemical Co.	The Howe Scale Co.	Noble Company	Taylor-Wharton Co.
Diamond Iron Works Div. Goodman Manufacturing Co.	Hoyt Wire Cloth Co.	Nordberg Manufacturing Company	The Thew Shovel Co.
Diamond T Motor Truck Co.	Hydro Dredge Accessory Co.	Northwest Engineering Co.	The W. S. Tyler Co.
Dodge Div. Chrysler Corp.	International Harvester Co.	Oshkosh Motor Truck, Inc.	Union Wire Rope Corp.
Dodge Manufacturing Corp.	Iowa Manufacturing Co.	The Owen Bucket Co.	The Universal Engineering Corporation
Eagle Crusher Co., Inc.	The Jaeger Machine Co.	Pettibone Mulliken Corp.	Harry Warde & Co., Inc.
Eagle Iron Works	Johns-Manville Corp. — Celite Division	Pick Manufacturing Co.	The S. K. Wellman Co.
Engineered Equipment, Inc.	The C. S. Johnson Co.	Pioneer Engineering Div. of Poor & Co., Inc.	Werco Steel Co.
Engineering News-Record	Kensington Steel Co.	Pit and Quarry	Western Machinery Co.
Erie Strayer Co.	King Mfg. Corp.	Plant City Steel Corp.	The White Motor Co.
Euclid Division General Motors Corp.	Koehring Company	Productive Equipment Corp.	Whiteman Manufacturing Company
Fleet Sales Department Ford Division of Ford Motor Co.	Leschen Wire Rope Div. H. K. Porter Co., Inc.	Radio Corporation of America	Willard Concrete Machinery Company, Inc.
Flexible Steel Lacing Co.	Link-Belt Company	Reo Division of The White Motor Co.	Worthington Corporation
Food Machinery & Chemical Corp., Florida Div.	Link-Belt Speeder Corp.	Richmond Screw Anchor Company, Inc.	The Yale & Towne Manufacturing Co. Trojan Division



Actual unretouched photo. Courtesy, Maramonte & Son, Inc., Milwaukee, Wisconsin

Do you want to throw away all the profit on 28,800 eight inch blocks?

▼ The pro-rated annual replacement *cost* on your 120 racks* exceeds the net profit produced by making and selling 28,800 eight inch blocks!

▼ That is . . . if you net 5c per block (and how many do?)

▼ Think about that for a moment! How hard is it to make and *keep* \$1,440? It's hard enough to produce 28,800 blocks and pretty tough to sell them . . . but when January rolls around and you suddenly realize the profit on those 28,800 blocks went *rusting* down the drain, it hurts.

▼ Well . . . stop it! And stop it now with RRP! RRP was designed to stop rust on steel block racks. It has stopped rust for other people. It will stop rack rusting for you! And . . . you do not have to *wire-brush* or *sand-blast* your racks! Apply RRP right over the existing rust . . . in any kind of weather.

▼ Every day you wait is costing you money! You can protect four new racks or stop rust on two old rusted-up racks with each gallon of RRP. Order your requirements today. The price is \$3.50 a gallon. Your satisfaction is unconditionally guaranteed!

▼ **EDICK LABORATORIES, INC.** 2358 South Burrell, Milwaukee 7, Wis.
▼ CHEMISTS FOR THE CONCRETE INDUSTRY

▼ *Based on an average rack life of 5 years, replacing 1/5 of the racks each year at a cost of \$60.00 per rack, equals \$1,440 per year for the average sized plant.

Editorial

More Preparation, More Value

February 15-18, in Chicago.

February 22-24, in Los Angeles.

These are two dates that are important to the bulk of our readers, being dates for, in order, the NRMCA meeting and the NCMA meeting. Both are annual, large scale meetings with many speakers, many topics, many places to go, much to see. While you have better than a month to think about these meetings, we'd like to urge that you give some thought to organizing your plans for what you want to see and do in Los Angeles or Chicago.

Our reason for urging this is that in Chicago, for example, there'll be equipment displays in both the Coliseum and the Conrad Hilton Hotel. There'll be more talks, group meetings and discussion than most of us can absorb. Since, inevitably, the meetings must be aimed at the entire membership there may be events that aren't critically important to you. Other parts you won't dare to miss.

So now, while there's time, is an excellent time to give some thought to just what you want out of these meetings, of how many of the individual parts are important to you, how you and others from your plant can cover all the activities you'll want to cover. It'll probably be too late to do this when you're already in a Chicago or Los Angeles hotel. If you don't plan now, you'll very probably be too rushed going from meeting to social event to meeting to make solid plans. This is most important for those in the industry who plan to attend both meetings, in a space of two weeks.

The meetings will contain important parts for your business. How effectively you make use of these meetings will depend to a large part on how much, or how little, preparation you do before checking in at the hotel. No matter what your aims in recreation or ideas, you can get much more out of these meetings with a little advance thought and planning.

Radistres —

A New Idea in Prestressed Panels

Casting of large, thin, lightweight panels can be possible with the new idea in tensioning machine.

With the purpose of developing very thin, lightweight panels but panels with ample strength, Albert F. Marsh of Tallahassee, Fla. has devised a new method of radial prestressing of concrete panels, called Radistres.

Instead of being a linear, one direction form of prestressing, the radial prestressing uses a method of placing continuous bands under tension, using steel wires rather than cables.

The real key to the method is in the stressing machine, shaped like a large X which applies tension primarily by use of hydraulic power. To simplify the description of this machine, from the X, fingers extend downward into the form. The bands are placed under tension, held by these fingers, and then the concrete is poured into the form. After the concrete has set sufficiently, the tensioner is withdrawn and the holes left by the fingers are then plugged.

Attachments

Marsh has developed accessories, such as tension clips, spacer clips for void walls, and "L" clips for single panel walls. As shown in this story, he's worked out a plant arrangement for panel fabrication.

Although the system was essentially designed for panels or flat areas, a single frame of the tensioner can be used for prestressing beams, joists and such products.

This radial prestressing method is still under development, being brand new. Further testing, refining of the process, manufacture of the necessary equipment and other development work is underway or planned, Marsh told us. Patent applications are being made, with Marsh considering a licensing arrangement after the method is developed.

Operation of Tensioner

We've received permission from Radistres to publish photos and drawings from their initial introductory publication, as you can see on these pages. These drawings and photos give a clear idea of the operation, from individual items to suggested plant layout.

In making a panel, these are the main steps. After the tendon bands are placed (8 for a 10x10x2' panel) a

screed board is placed on the form. With tensioning completed, concrete is placed over the tendons and around the tensioner fingers.

Concrete is screeded around the fingers and under the tensioner. After all pouring is completed, the panel surface is finished in the usual way.

Tapered Fingers

The tensioner fingers are tapered for easy lifting of the tensioner from the cured concrete. The clips used remain in the concrete with the tendons. Before plugging of the finger holes, a threaded stud is usually screwed to the finger clip in the bottom of the hole. This stud is later removed, leaving a threaded hole in the casting for attaching lifting fasteners, and for bolting the panel onto the building.

After plugging the holes, the back of the panel is flat and smooth, with the usual line of small bolt holes running in an X-shaped pattern across the back. These bolt holes lead to the threaded seats in the clips embedded in the concrete.

The clips are against the tendons and in effect are part of the reinforcing. Marsh notes; hence, bolts attached at these points provide a desirable direct bearing contact from the reinforcing to any exterior attachments.

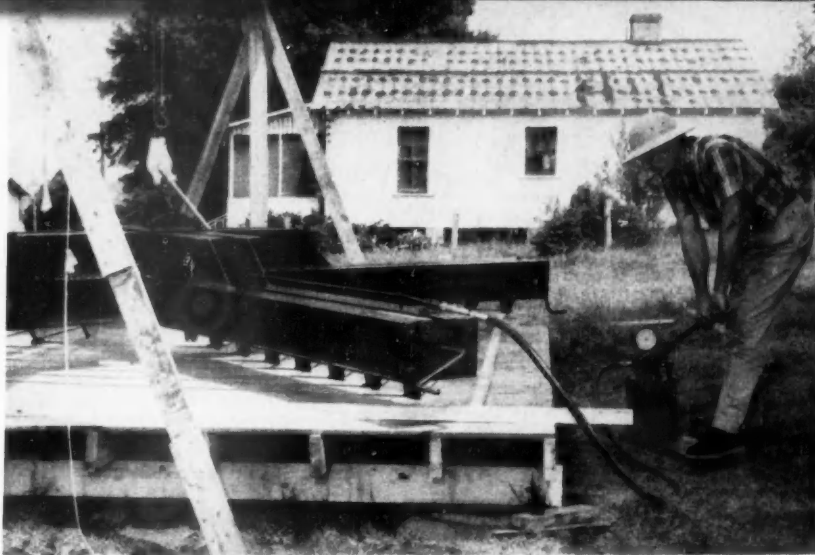
The face of the panel (the bottom side of the casting) can be completely smooth or can have a cast pattern. Marsh suggests one idea: by "painting" a retarding solution on the bottom of the form, about 1/8" of the concrete in contact with it may be prevented from setting until the panel is lifted.

Pebbled Surface

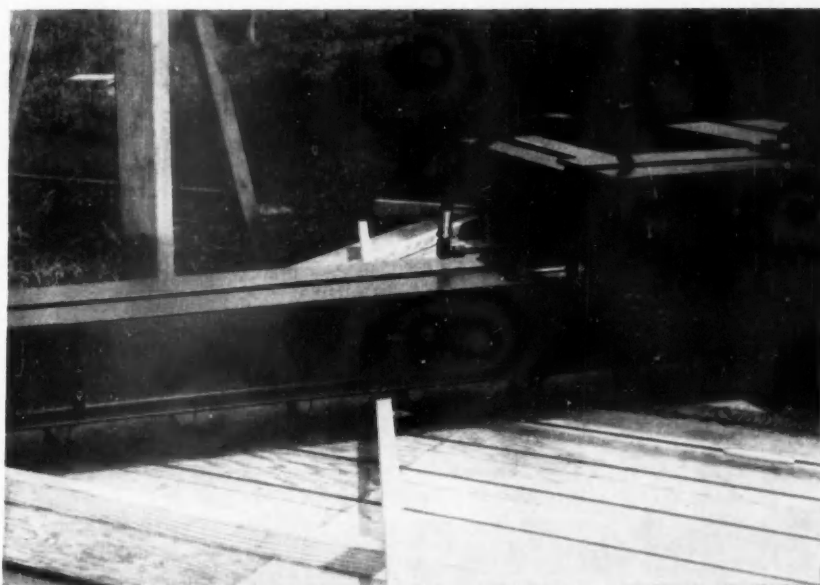
Then, this unset surface cement can be hosed off to leave a gravelled or pebbled surface. Colored pebbles can be added; different colors can be added to the cement.

The plant layout is relatively simple. Marsh to date is working in an experimental arrangement, but suggests that a plant operation use the tensioner on an overhead monorail, moving down a line of casting panels.

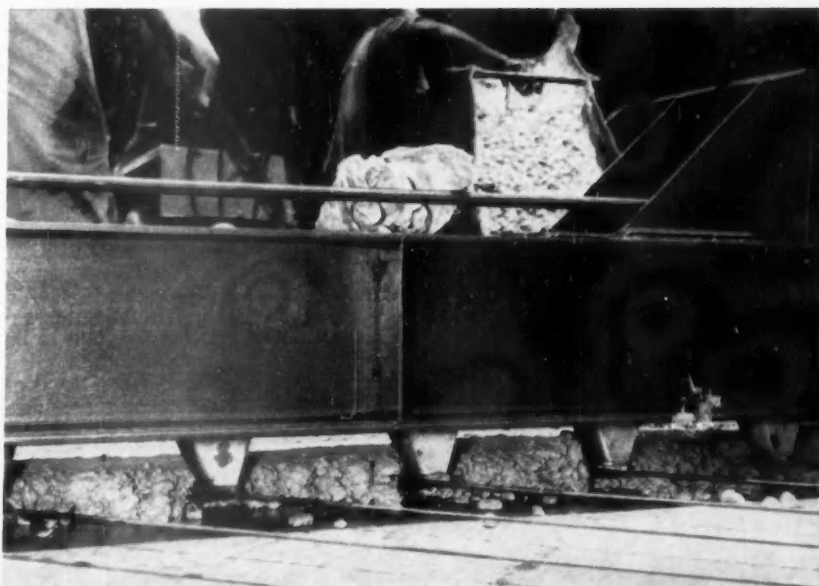
Continued on page 18



Operating the hydraulic pump to elongate eight tendon bands on form.



Screed board under tensioner. Ready to receive concrete pouring.



Concrete being placed over tendons and around fingers; latter protrude halfway into panel.

Radistres

Continued from Page 16

One idea he has is to use hot water to get a quicker early strength. Since the forms are higher than the casting, the plant layout shown has an arrangement of piping hot water onto the top of the form with a return back to the water pump and heater.

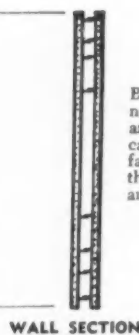
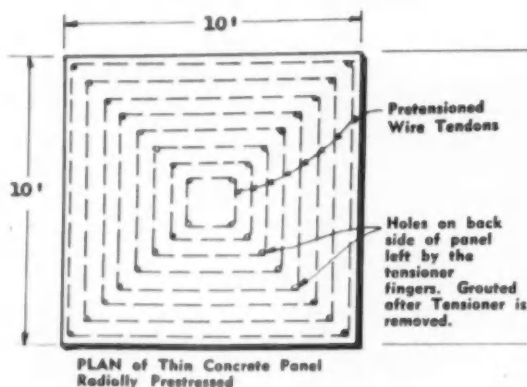
Sizes of panels can, of course, be varied, as can panel depth. In the latter case, the fingers can be adjusted for depth by shim blocks.

According to the initial information, Marsh expects to have greatest potential for store fronts and walls, walls

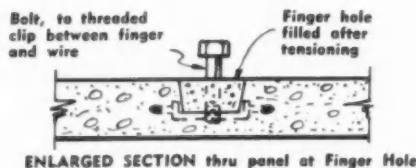
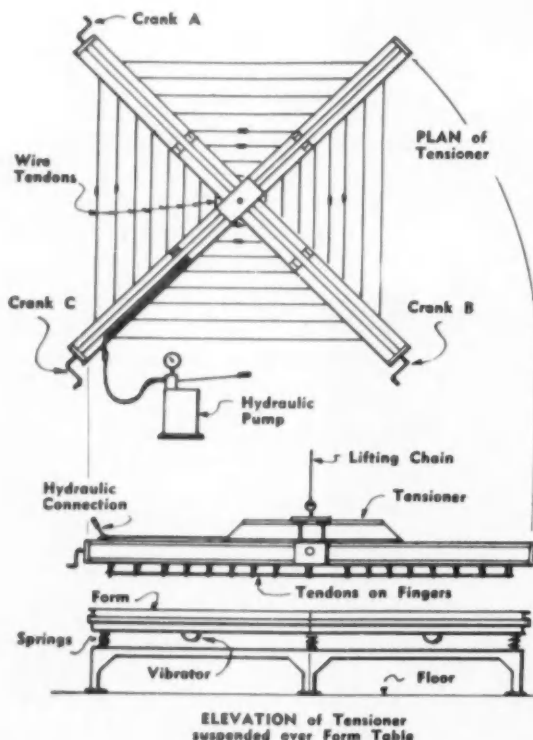
and partitions for banks and office buildings, prefabrication of walls, floors and roofs for houses, and walls and partitions in factories.

With the expected strength of the panels, it's believed possible that a Radistress building could be dismantled and panels used again in another structure, or in the same one relocated.

This, essentially, is a condensed report on the development and methods to date in the Radistres method. As the Radistres method is polished and modified, it may be possible to cast large, thin panels lightweight enough to be easily handled, using this new radial prestressing system.



By varying the thickness of the concrete, the size and number of tendons, panels may be made for walls, floors and roofs. Two panels, back to back, form a perfect cavity wall. They are secured together with metal fasteners bolted to threaded clips left in the concrete at the finger holes. Wall panels may be 1½" or 2" thick and will bear considerable bending without cracking.

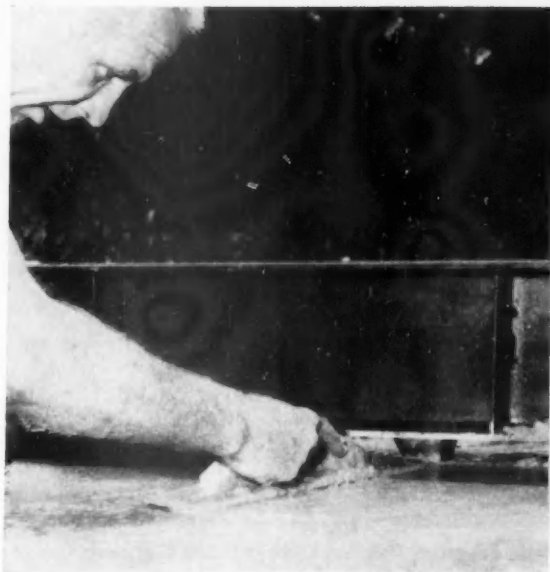
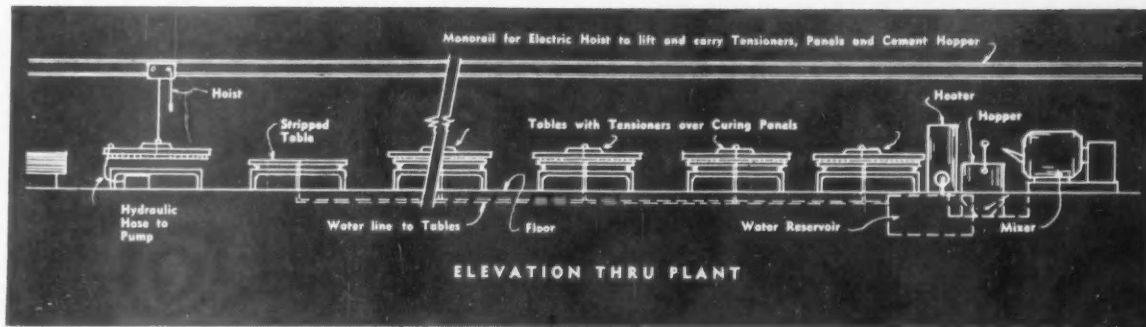


NOTES: The wire tendons are elongated by outward movement of four sets of fingers protruding below the tensioner frame. Turning of Cranks A and B takes the initial slack out of the wires by moving a set of fingers toward each crank. Then, operation of the hydraulic pump elongates the tendons by moving the other two sets of fingers outward toward opposite corners. Finally, Crank C sets threaded rods to lock the tension. The hydraulic pressure may be relieved, then, until the concrete sets.

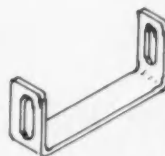
In the casting operation, the tensioner is let down to rest on the form. Depth of the fingers and tendons in the concrete is controlled by shim blocks between the tensioner and form.

The MARSH TENSIONER for Radial Prestressing of Flat Concrete Castings

Patents Applied for

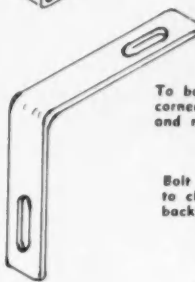


Completing finishing of concrete.



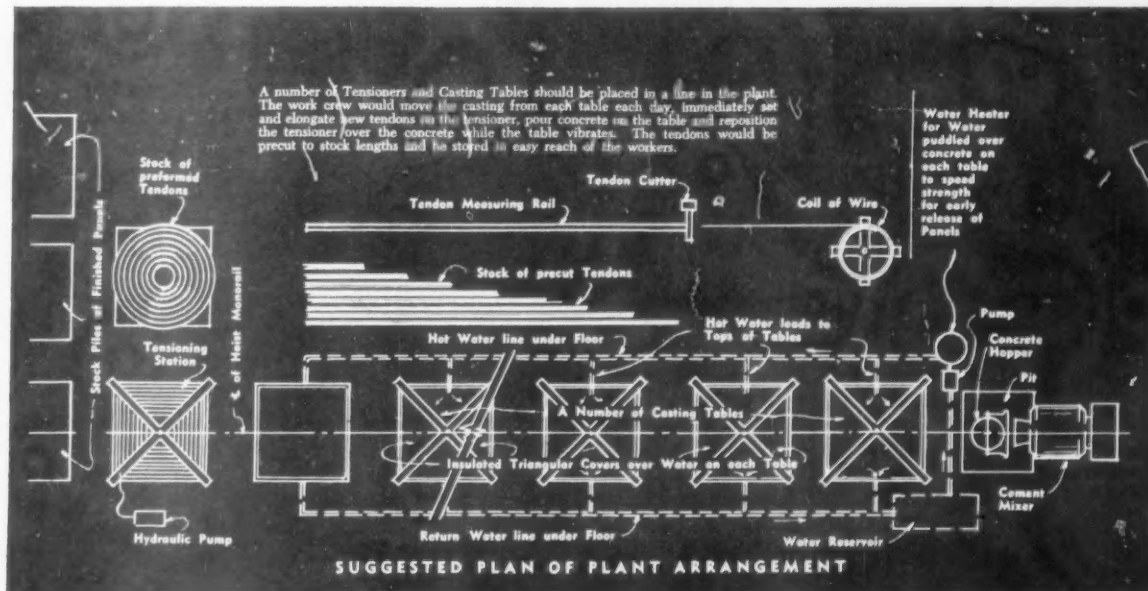
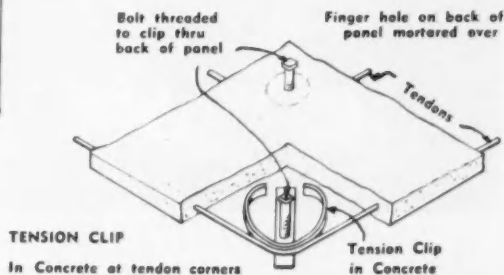
SPACER CLIP
for VOID WALLS

Galvanized or
Corrosion resistant



"L" CLIP for
SINGLE PANEL WALLS

To be bolted on surface at
corners of adjoining walls
and roof



Meeting Roundup:

Reports on the CMA, ASTM, ESCSI meetings



ESCSI officers and their Canadian hosts look over the winning design of the Civic Square Competition of Toronto, as part of the ESCSI meeting.

Research, Publications Reviewed at ESCSI Canada Meeting

The Expanded Shale Clay and Slate Institute held its seventh annual meeting the week of October 13th, 1959, at the Royal York Hotel, Toronto, Ontario. The Cooksville-Laprairie Brick Ltd. of Toronto was host member. This company is one of the oldest producers of expanded shale in the world, having been in continuous production for more than thirty years.

More than fifty producers and their wives from the United States and Canada, representing twenty-seven of the Institute's member plants, attended the meeting.

Study Programs

The comprehensive shrinkage and creep program now under way at the National Bureau of Standards at Washington, D. C., was announced and discussed. This study

will be conducted over a period of five to ten years on concretes made from more than twenty aggregates produced by members of the Institute.

Several additional research programs in the field of structural concrete, as well as concrete masonry, were discussed, and programs for future research studies were approved.

Publications

The Publications Committee reported that the No. 2 Vol. 6 issue of the Institute's quarterly publication "Concrete Facts" contains an index of all previous issues. Attention was called to the fact that over one million copies of this bulletin have been published.

The committee also announced that over one hundred fifty thousand copies of Lightweight Concrete Informa-



Panelists Jim Chandler, Harold Hutchens, Moderator Hector King, Mark Huggins and Otto Frei at the ESCSI

tion sheets have been published, and approved subject matter for several bulletins to be added to this series.

Members of the Institute were guests of the host company at a luncheon and tour of their expanded shale plant and other facilities at Cooksville, Ontario. The wives of members and guests were hosted by the Cooksville-La-

prairie Brick Ltd. for several luncheons and sightseeing trips, including a visit to Niagara Falls, Ontario.

One of the features of the meeting was a Panel Discussion of Structural Concrete and Concrete Masonry, attended by more than one hundred architects and engineers, block manufacturers, and officials of Toronto and the surrounding area. The panelists were: Hector King, Moderator, Cooksville-Laprairie Brick Ltd., Toronto; Jim Chandler, Chandler Materials Company, Tulsa, Oklahoma; Harold Hutchens, The Carter-Waters Corp., Kansas City, Missouri; Professor Mark Huggins, University of Toronto, and Otto Frei, Georgia Lightweight Aggregate Co., Atlanta, Georgia.

The meeting was concluded with the annual banquet and the installation of officers, all of whom were re-elected for a second year. They are: President, Allan P. Taylor, Kenlite, Louisville, Kentucky; First Vice President, Cedric Willson, Texas Industries, Inc., Dallas, Texas; Second Vice President, L. A. Thorssen, Consolidated Concrete Industries, Calgary, Alberta; Secretary, Lester Kennedy, Light Aggregates, Inc., Rapid City, South Dakota; Treasurer, Ben F. Park, Buildex, Inc., Ottawa, Kansas.

Washington, D. C., headquarters of the Institute, was selected as the meeting-site for the 1960 meeting, which will be held during the month of October.

Quality Control, Research Programs Begun by California CMA

The fifth annual Concrete Masonry Association convention held at Alisal Ranch and Resort November 12-15, 1959, broke all previous attendance records for the California group.

One of the chief aims of the manufacturers at the convention was to approve and put the final touches on the Quality Control Testing and Research program inaugurated.

Albyn Mackintosh of Mackintosh & Mackintosh, Structural Engineers and consulting engineer to CMA, outlined the program at a technical session on November 13, as follows:

1. A compression testing program to insure that every block manufacturer has a minimum compression strength of 1000 psi gross and 2000 psi net.
2. Moisture tests
3. Absorption tests
4. Permeability tests
5. Shrinkage tests
6. Tensile standards to be determined.

Continued on next page



CMA President Ray Clanton with (left) Mrs. Clanton and Dorothy Rendessy, CMA executive secretary.

On November 14 the CMA Board of Directors approved the research and testing program as developed by Mackintosh and the CMA Technical Committee and voted on its immediate inception.

Albyn Mackintosh said:

"There are several things the concrete block industry can do in California to insure uniform quality control.

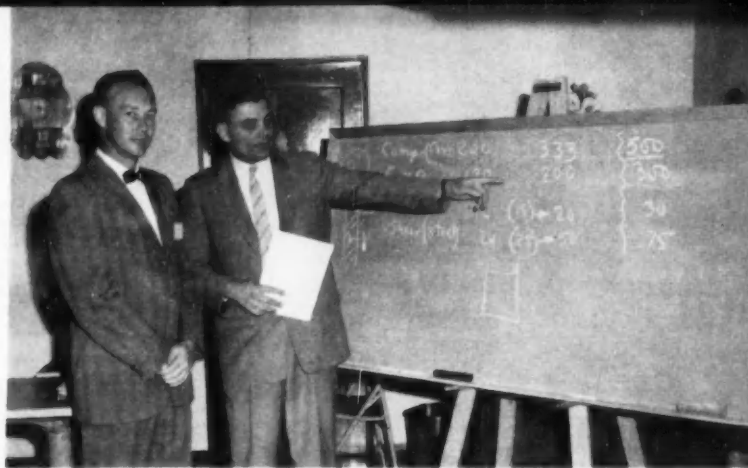
"Among these are shrinkage tests, to establish control of the amount of allowable shrinkage in block manufacture.

"The block industry, as an industry," said Mackintosh, "must accept its share of responsibility for insuring top quality in the product itself. Workmanship, of course, is important — good workmanship — but the members of CMA as representing the industry must insure quality products."

Mackintosh stated he is going to propose extensive changes in the code to give concrete block the more favorable position it deserves.

Stressing the need for greater allowances in the codes, Mackintosh said that the present allowable compression or flexure of 200 lbs. should be changed to 333 lbs. without inspection, dependent on quality and 500 lbs. under continuous inspection.

He also said that compression requirements should be raised from the



President Clanton and Albyn Mackintosh, CMA consulting engineer.

present 120 psi to 200 without continuous inspection and 300 with.

And that shear should be raised from 12 to 20 and under continuous inspection to 30, and when there is steel in the wall shear should be raised from the present 24 to 50, and with continuous inspection to 75.

He recommended that wall mesh, a wire reinforcing product manufactured in Southern California be allowed to be used as part of horizontal steel.

Members attending the convention were enthusiastic about the program and further stimulated by keynote speaker Walter Prill of the Southern Counties Gas Co.

Prill set the tone for the meeting with the thought that ideas are more

powerful than artillery and urged the use of "brainstorming" sessions.

A highlight of the meeting was the architects panel, moderated by John Aguirre of the Portland Cement Association with the panel consisting of George Vernon Russell, FAIA; Joe Jordan, AIA; and Ed Farrell, AIA. These distinguished architects spoke on "Fresh Approaches to Block Design" and offered valuable information to manufacturers.

CMA President, Ray Clanton, addressed the delegates and spoke of the many past achievements of CMA and indicated the many more to come. Following President Clanton's address a sales conference and seminar was held which provoked many favorable ideas.

Lightweight Clay Units, Additives Topics at ASTM Pacific Meeting

No meeting in the history of the American Society for Testing Materials has been so illustrative of the Society's broad scope of activity as its 3rd Pacific Area National Meeting held in San Francisco, October 12-16, 1959. While emphasis in many sessions was focused on the extreme environments which materials are now required to withstand in an age of rockets, jets, missiles, re-entry nose cones, atomic power plants, and high-temperature industrial uses; other sessions were directing attention to

far different but no less important problems of materials for our nation's airports, highways, dams, industrial plants, homes, and other structures.

Masonry Materials

Efflorescence, lightweight masonry units and field testing of mortar and grout were discussed at the Symposium on Masonry Materials presented on October 12 at the ASTM meeting.

The fact that efflorescence is a complex phenomenon, and that differences of opinion therefore exist on

how to interpret this condition, was stressed by P. L. Rogers, Riverton Lime and Stone Co. Through the work of ASTM Committee C-12 on Mortars for Unit Masonry, and a background of research by others, a proposed method of test could now be considered by which specification limits could be set that would be tolerant enough to take care of some of the uncertainties that still exist.

Reduction of 35 per cent or more in the weight of structural clay ma-

Continued on page 26

Depreciation Speed Up Method Can Save Your Tax Money

By
Jack Bedford
Professor of Management
Armstrong College

Concrete plants have a golden opportunity to save income tax dollars. You can speed-up your depreciation deductions if you meet the specific requirements and follow through on the provisions of the depreciation speed-up law.

Briefly, this revision of the Internal Revenue Code provides an extra 20% deduction during the first year you have an investment in depreciable property. And, you can also take the regular first-year depreciation on the remaining 80% of cost. This special tax saving applies only to the first \$10,000 of investments in depreciable property each year and is increased to \$20,000 in the case of a joint tax return of a husband and wife.

For instance, suppose you invest the maximum (\$10,000) in equipment. You are allowed to deduct \$2,000 or 20% of this from your adjusted gross income. In addition, you take your regular depreciation for the first year on the remaining \$8,000. Using the declining balance method on a ten-year life of the equipment, you would take regular depreciation of \$1,600 for the first year.

Here is how this illustration works out mathematically for your income tax savings:

Purchase cost of equipment	\$10,000
Special first-year deduction	2,000
<hr/>	
Balance to depreciate	8,000
First-year depreciation with double declining balance method	1,600
<hr/>	
Balance for future depreciation	6,400

Thus, your total deduction for this \$10,000 investment in improved facilities would be \$3,600 the first year. You would have 36% of your investment back to further expand or modernize the next year. And, you would have income tax savings on the entire amount of this deduction this year.

To qualify for this extra income tax deduction, you must meet these requirements:

Must Be In Depreciable Property

Anything that is intended for use in a trade or business or held for the production of income that wears out or reaches a point where the original usefulness declines can be depreciated. You can depreciate your plant equipment, delivery equipment, office equipment, etc.

This requirement sets the date when the property must have been acquired to qualify. There is no indication in the law that the 20% deduction should be prorated for the portion of the year the property is owned. Thus, equipment purchased anytime during the current tax year would qualify for the full 20% deduction, but depreciation would be calculated on the portion of the year the property was owned.

Acquired During The Current Tax Year

For instance, equipment is purchased in October. The 20% deduction would be on the full amount. However, the deduction for depreciation would be only one-fourth of the full year's amount.

One point specifically stressed in the depreciation speed-up law is the "purchase" of property. Thus, the property must be purchased in a bona fide way — not a transfer between relatives, for instance. One business with a common ownership could not sell property to another business with the same common owner and qualify for the special deduction.

Useful Life Of 6 Years Or More

This is one point that must be carefully checked to be sure your purchase meets the requirements. "Useful" life is the point that has led to many disagreements in the past between the taxpayer and the Internal Revenue Bureau. As a general rule, this is determined by the useful life of the equipment to the taxpayer — not the normal useful life.

For instance, you buy equipment that has a normal ten-year life. At first glance this would qualify, but if you have been in the habit of replacing this equipment every four years it will not qualify.

New And Used Equipment Qualify

One point stressed by Congress in this depreciation speed-up law, was the fact that used equipment would qualify. There are, however, two points to keep in mind about whether the equipment is new or used when applying this special deduction the first year.

First, the same six year provision applies to the used equipment as well as the new equipment. For instance, if you buy used equipment with an estimated ten-year useful life when it is five years old, it will not qualify. The useful life to the taxpayer is the important point to remember in applying for this special deduction.

Second, you must keep in mind the special requirements for depreciation that apply to used equipment. To qualify for the faster depreciation rates of double declin-

Continued on following page

Depreciation

Continued from Previous Page

ing balance method, the equipment must be new. Thus, even though it could qualify for the special 20% first-year deduction, it might be necessary to depreciate the balance on the straight-line or the sum-of-the-digits methods.

Selection Must Be Made in Taxable Year

When you file your income tax return, you will have made a selection and it becomes irrevocable after that. However, you do have some latitude in making your selection of the equipment you wish to use for the special 20% deduction the first year.

For instance, if your total purchases of equipment this year exceeds \$10,000, you can divide this in any way you think is best for your business. The complete \$10,000 can be allocated to one piece of equipment, divided equally between two pieces of equipment, or spread around in any other way you prefer.

You will have tax savings every year you purchase new equipment to keep your business modern. The law sets up these provisions not for just this year, but for every year. And, when you replace your old equipment with modern new equipment, you will have a capital gain at the lower tax rate which will save you more tax dollars.

For instance, assume the purchase of \$10,000 worth of equipment this year. You would have the following deductions for your business:

Cost of equipment	\$10,000	
First-year deduction of 20%	2,000	
		<hr/>
Balance to be depreciated	8,000	
Depreciation (declining balance)		
1st year	\$1,600	
2nd year	\$1,280	
3rd year	\$1,024	
4th year	818	
		<hr/>
	\$4,722	\$4,722
		<hr/>
Book value of equipment	\$3,278	

Now if at the end of four years you sell your old equipment for \$5,000 you would have a long-term capital gain of \$1,722 of which one-half would be subject to income tax.

Even if you do not sell the old equipment for a profit over your book valuation, you will still realize extra benefits by having your working capital back earlier with this new tax revision act.

To realize full value on your tax savings this year, you should keep these points in mind:

1. Buy either new or used equipment up to \$10,000.
2. If more than \$10,000 is needed for modernization hold back \$10,000 until after the end of the tax year.
3. Be sure the equipment has a useful life of at least six years.

Small Locking Discs Used to Replace Mortar

A new method for building houses of lightweight concrete block without using mortar or other liquid-type binding material has been developed by the Ytong Co., a member of a group of Swedish lightweight concrete producers.

The method consists of locking the block by means of small circular nylon discs placed in $\frac{3}{4}$ " deep lengthwise grooves in the horizontal surfaces of the block. Patents have been applied for.

The new method, developed by Ytong's managing director Harry Blomquist, is said to give the walls a structural strength that is 60% stronger than when building with mortar joints.

Once the first layer of block has been placed, with careful use of a level, on a base of cement mortar, the entire building adjusts itself automatically to its horizontal and vertical outlines, the firm reports.

The discs, only three to a bond, have a diameter of $1\frac{1}{2}$ " and are $\frac{1}{8}$ " thick. They are said to keep the block in place in spite of these small dimensions. Corner bonds are effected by means of extra vertical grooves, so that the disc locks three units at a time.

Partition walls are made of thinner units joined together in the same way as the exterior walls, Ytong says. The locking discs for the former are square shaped, as it's been found preferable to use a slightly larger contact surface for the lighter units.

Among the advantages claimed for building with the disc-method are: shortened building time, and easier work; easier and neater surface treatment; partition rearrangement is easier, and it's even possible to take the house apart and move it to another location; building can go on even in severest winter temperatures.



How to Get Safety Materials

A report on what's available to use, how you can get the material, what organizations can be helpful.

By
Thomas H. Mackin

F. W. Sloter, Inc.
Columbus, Ohio

The materials available for a safety program can, as most of you well know, be of many types. The printed or publication variety is perhaps the most common. These take the form of stickers, reminders, magazines, posters and many others. The oral or visual safety material is quite popular and these include films, slides, group talks and discussions. The question is, where does one get this material?

The various law enforcement agencies such as the State Highway Patrol, your city police and safety department and your county sheriff would be all too happy, I'm sure, to furnish your company with any printed material, talk to your men, or show the various films on safety which they might have.

National Safety Council

The National Safety Council, the granddaddy of them all, has scores of pamphlets, posters, stickers, reminders and other material all available at a very nominal cost. You do not have to be a member of the National Safety Council to buy these publications.

The Fleet Safety Manual of the National Safety Council is arranged and indexed to cover every phase of a safety program. This manual should be required reading for anyone thinking of a safety program.

Some important headings are: Driver Training, Accident Review Committee, Garage and Repair Shop Safety, and there are many others.

The National Safety Council has several 35-mm slide films and 16-mm motion picture films available for rental or purchase if you desire. Rental fees are on a per week basis. These films or slides generally run for fifteen to twenty minutes and cover quite a variety of subjects dealing with safety. They are in black and white as well as color.

Award Jewelry

The National Safety Council has lapel pins and other safety award jewelry available at a modest cost. To cite an example, a personalized no-accident award pin with your company name and the number of accident free years will run less than a dollar a pin.

If your company is a member of the National Ready Mixed Concrete Association you can avail yourself of their publications. An example is their checklist of danger points around your plants such as open ladders, conveyor pits, etc. The association can also furnish you with examples of successful safety programs in other plants around the country as a guide to your own.

Equipment manufacturers, auto and truck manufacturers, oil companies, tire and rubber companies all have several publications and films and even contests.

Trade Publications

The trade publications such as *Concrete*, will from time to time have articles dealing with safety programs in our own industry. If you run across an article in any publication that might be useful in your

safety program, additional copies or reprints are always available for the asking. I have here a reprint of an article that appeared in *Concrete* magazine called "Developing Professional Drivers." A very fine article.

Insurance Agent

Your insurance agent is in a position to offer valuable help in any safety program. Since the cost of a high accident rate or numerous property damage claims is reflected in higher insurance premiums, a letter from your agent, or possibly a talk by him, to a driver or drivers dealing with what an individual's safety record or lack of it costs the company in increased annual premiums can in many cases solve some distressing problems.

Road Checks

Many insurance companies offer road checks on equipment. These checks can be done anonymously and without the driver's knowledge. The checks include date, time, locations as well as truck speed, driver road courtesy and a notation of any traffic violation. They are generally mailed to your company and can be posted on your bulletin board or used by your safety man.

Your company doctor can give valuable assistance in your safety program through annual physical check-ups or through a pre-placement medical examination. The selection and keeping of proper and adequate medical records to coincide with your program is something your company doctor is best qualified to do.

This, by necessity, has been just a brief survey of what materials are available to assist in your safety program. The question is, do they do any good? I'll answer it this way — two months ago we buried one of our drivers. He had worked for our company almost twenty-five years. He wore out nine trucks. He drove over two million miles. He never had an accident.

Presented at the Public Relations & Safety Course for Drivers, sponsored by the Ohio Ready Mixed Concrete Assoc., held in Columbus, Ohio, January 19-21, 1959.

ASTM Meeting

Continued from page 22

sonry units appears to be practicable by production methods. Research and testing data presented by Paul V. Johnson and W. K. Soderstrum, Structural Clay Products Research Foundation, indicated that the interrelationships of certain physical properties of lightweight units might differ from those in units now manufactured.

The need for a field test of masonry mortar and grout was emphasized by Norman W. Kelch, Associated Brick Manufacturers of Southern California. A simple method for making field-test specimens of mortar and grout for reinforced grouted brick masonry was described. This method is now in use in Southern California and recognized by the building code authorities.

The large number of admixtures for concrete now being manufactured for a variety of purposes has led to misuse, with resulting bad effects upon the concrete itself. Several speak-

ers at the symposium emphasized that admixtures had a very definite place in concrete construction when correctly used, particularly in the right amounts.

Four categories of admixtures were discussed: (1) lignosulphonic acids and their salts, (2) modifications and derivatives of lignosulphonic acids and their salts, (3) hydroxylated carboxylic acids and their salts, and (4) modifications and derivatives of hydroxylated carboxylic acids and their salts.

In each, the primary component has both water-reducing and set-retarding properties, which may be modified by the addition of other components. Sugar content is a critical factor in some of the admixtures; however variation in sugar content does not appear to be important.

Data were presented to show the effect of admixtures on properties of plastic concrete such as water-reduction, retardation, air-entrainment, bleeding, and slump loss. The effects on hardened concrete included some increase in strength at 28 days, with a high rate of strength gain at 3 and 7 days; a substantially lower per-

meability to water under pressure; no appreciable reduction in volume change; some improvement in resistance to freezing and thawing; and a modest improvement in resistance to sulfate attack.

It was stressed that the quantity of admixture added must be accurately measured for uniform results.

A revealing description of the hyperbolic paraboloid, or more simply the umbrella type of concrete shell construction, was presented by Felix Candela of Mexico City.

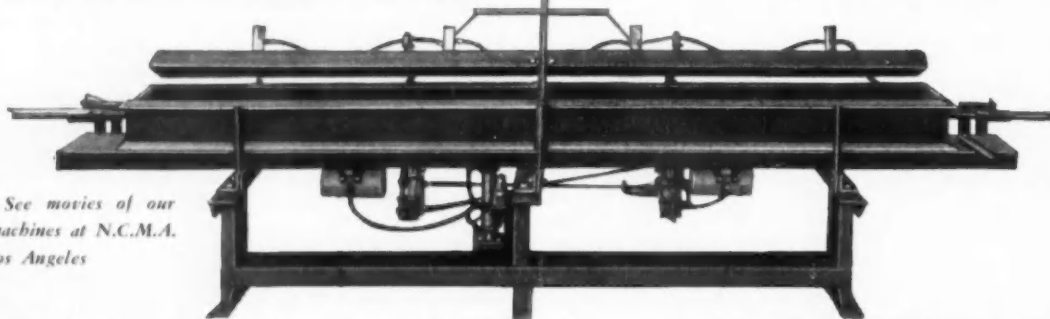
Senor Candela, one of the leading proponents of reinforced concrete shell structures, was the featured speaker at the Cement and Concrete Industry Luncheon, October 15. He presented a highly technical subject in a refreshing and informative way.

His statement that he did not need good concrete in these structures was provocative. It is the usual thing to require high quality in all concrete construction.

The stress relationships and the abundance of reinforcing steel, however, reduce the need for high-strength concrete.

The New Improved KENT LINTELATOR

It's redesigned, built heavier, equipped with additional heavy duty vibrators, easier and faster to operate.



See movies of our
machines at N.C.M.A.
Los Angeles

Hundreds of LINTELATORS are in use producing concrete lintels, coping, parking lot bumpers, fence posts, etc.

The business has proved to be extra profitable because it has come largely from established sources. New sales methods have not been necessary.

Write for information now and expand your business without increasing your headaches.

The KENT MACHINE CO. Cuyahoga Falls, Ohio, U.S.A.

SUBSIDIARY OF THE LAMSON & SESSIONS COMPANY

Canadian Distributor: Wetlaufer Equipment, Ltd., 49 Merton St., Toronto 12, Ontario

56th Annual ACI Meeting New York City, March 14-17

The 56th Annual Convention of the American Concrete Institute will be held March 14-17, 1960, at the Commodore Hotel, New York City.

The technical program, of interest to designers, builders, research men, and others in related fields in the concrete industry, will get underway Tuesday afternoon, March 15. Approximately 30 papers will be presented at eight sessions.

Monday, March 14, and Tuesday morning, March 15, will be devoted to meetings of ACI technical committees to review current work and aims. The technical program gets underway Tuesday afternoon with concurrent sessions scheduled for all day Wednesday and Thursday morning. Thursday afternoon will feature the annual research session with progress reports of tests on concrete at institutions throughout the world.

The first general session Tuesday afternoon will include reports from ACI technical committees on formwork for concrete, shear and diagonal tension, recommended practice for slab-on-ground construction, specifications for structural concrete, and consolidation of concrete.

Highways

Concurrent sessions Wednesday morning will deal with model tests and highways. The session on model tests will feature how structural models evaluate behavior of concrete beams, Glen Canyon Dam structural model tests, thin-shell structural models, and testing rigid frame bridge model to ultimate load. The highway session will be devoted to air-entrained concrete after 20 years, continuous placement of concrete on three-span continuous units of Bruckner expressway, the AASHTO road test — a background report, and gravel beneficiation in Michigan.

The Wednesday afternoon sessions will feature materials and design and structural research. The session on materials will consist of papers dealing with freeze-thaw resistance of concrete made with lightweight aggregates, effect of maximum size of coarse aggregate on properties of

concrete, effects of incomplete consolidation on pulse velocity, modulus of elasticity, and compressive and flexural strength of concrete, and nuclear measurement of water in concrete production operations. The design and structural research session will feature ultimate strength design, effect of draped reinforcement on behavior of prestressed concrete beams, high strength reinforcement in concrete structures, and shrinkage and creep of concrete.

Thursday morning will include a symposium on restoration of deteriorated concrete, under the direction of ACI Committee 201, Durability of Concrete; and a design and construction session. The session on restora-

tion of concrete will include: conventional methods of repairing concrete, repair of concrete pavements, the prepacked concrete method, use of epoxy adhesives, and pneumatically applied mortar. The session on design and construction will cover the \$19 million precast and prestressed pier for New York City, effect of strength of slab concrete on column strength, welding of reinforcing steel between precast concrete units, and shear strength of restrained concrete beams without web reinforcement.

Roger H. Corbetta, president, Corbetta Construction Co., New York City, is general chairman for the New York meeting.

Supreme Finishes \$250,000 Expansion Plan



A \$250,000 expansion program, including installation of another block machine, was recently completed at the Supreme Concrete Co., Inc., at their plant in Frederick, Md.

Vice president G. Robert Lyles reports that the plant is so completely automated that from the time raw aggregate is dumped into unloading hoppers it's untouched by hands until delivered to the job site as a building unit.

In the plant's operation, freshly ground raw materials are taken by elevator to overhead storage and then dumped into a weigh batcher and weighed. Then, material goes to a mixer for automatic mixing done by an electronic controls called the Supreme Robo-Matic.

Mix is then dumped into a Besser Vibrapac equipped with a Besser-Matic loader and unloader. Green

block are taken to kilns for curing, and the cured block are pushed on to a conveyor system which leads to the curbing station. At the curbing station, the block are mechanically placed into 72 block cubes and placed by fork lift onto delivery trucks.

Delivery trucks at Supreme are equipped with a boom type unloader.

Supreme has three plants located in Hagerstown and Frederick, Md., and Winchester, Va.

As part of the opening of the new production facilities, G. Robert Lyles Sr., company president, conducted an open house tour of the plant. Visiting the plant were NCMA executive director Walter Underwood, NCMA assistant director of engineering Henry Toennies, and all block producers except two from the general area of Frederick.

What's New in

EQUIPMENT and MATERIALS

Dustless Cement Batcher

A new dustless cement batcher is adaptable to any bulk plant for accurate batching of bulk cement, available for either manual or automatic operation. Completely sealed, the

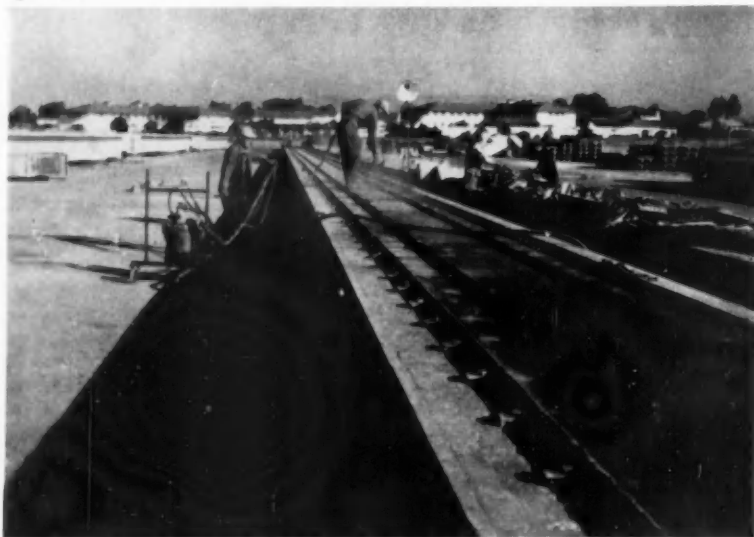
operation is said to be dustless and moisture proof, with capacities ranging from 16 to 54 cu. ft. capacities.

Heltzel Steel Form & Iron Co., Warren, Ohio.

Enter J30 on Inquiry Card

Prestress Form Compound Leaves Glassy Surface

A new smooth-parting, non-caking form lubricant for pre-stressed concrete beams and pipe has been introduced by Shell Oil. Called Shell Form Compound, the new form release agent permits quick stripping of concrete members, leaves concrete with a glossy, almost marblelike surface and does not build up on the forms. These qualities make it suitable for architectural as well as structural grades.



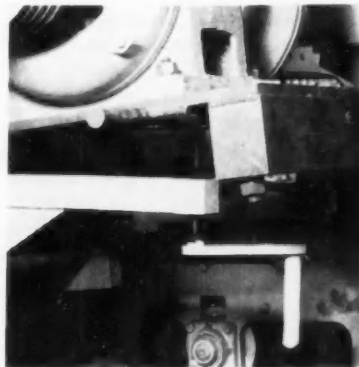
Shell Form Compound is a water/emulsion material mixed just before use in a ratio of 1 part compound to 5 parts water. Cost of the emulsion is about 20 cents per gallon. Three gallons or less will cover a full 420 ft. double-tee bed. Ordinary spraying equipment is adequate for application to steel and wood forms for all types of prestressed structural members.

The compound "sets" almost on contact and cannot be squeezed out by the pressure of wet concrete or tamping. It is particularly suitable for production of architectural grade beams where clean, unmarred surfaces are necessary. The Form Compound also will not interfere with the concrete paints and coatings applied to architectural members.

The new form lubricant is also applicable for use in producing cast concrete pipe. Application techniques are the same with molds being sprayed just before casting.

For further information inquiries should be sent to Dan E. Hendricks, Jr., Shell Oil Company, 50 West 50th St., New York, N. Y.

Enter J32 on Inquiry Card



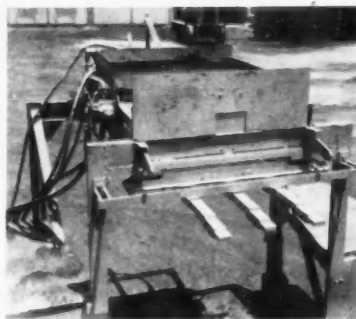
**Besser Vibrator
Motor Jack**

Besser Co. has announced a new vibrator motor jack which it claims makes changing molds and vee-belts on all Vibrapac block machines a one-man operation.

According to the company, the motor jack is safe, fast, and simple to use—just turn the crank. Installation drawings are included with each pair of jacks.

For further details, contact Besser Co., Service Department, Alpena, Michigan.

Enter J31 on Inquiry Card



Shel-Brik Machine

This device is adaptable to any make or model of block machine for the manufacture of a new product called Shel-Brik. The machine inserts two metal ties automatically in-

to the two face shells which form the basic unit.

For design purposes the new unit is considered as reinforced grouted masonry rather than as a concrete block. Dimensions available are 6x-6x16", 8x6x16" and 12x6x16".

Clanton Corp., 9260 Dorrington Place, Pacoima, Calif.

Enter J33 on Inquiry Card



Machine Can Double Pool Coping Output

A new method of producing swimming pool coping has been developed that allows reuse of the same mold every three minutes, as compared to the present method requiring five hours curing time in the mold.

Jayco has developed a vibrating coping machine and a series of 30 molds with the molds two pieces, epoxy plastic and metal, lightweight and durable. In operation, concrete is vibrated in the mold; the machine inverts the mold and releases the coping onto a wooden pallet; the mold returns to the machine for the next coping. Mold change reportedly takes only a minute.

Jayco Products, 5445 N. Peck Road, El Monte, Calif.

Enter J34 on Inquiry Card

Heltzel Batch Plants

A new 8 page booklet is available that gives a complete description and specifications for the Heltzel line of bolted type cement batching plants. Also illustrated in the catalog are batching equipment and a listing of other Heltzel products.

Heltzel Steel Form & Iron Co., Warren, Ohio.

Enter J35 on Inquiry Card

Voidcrete Catalog

The line of Elgood Voidcrete inflatable void forms is described in a new catalog (601) showing how the forms can be used for making voids in concrete products, and some typical products that can use such forms.

The booklet contains information on how to use the forms, load limits, typical layouts for form use, and other such information.

Elgood Concrete Forms Corp., 378 Ten Eyck St., Brooklyn, N.Y.

Enter J36 on Inquiry Card

Fast Unloading with Pack-Hauler



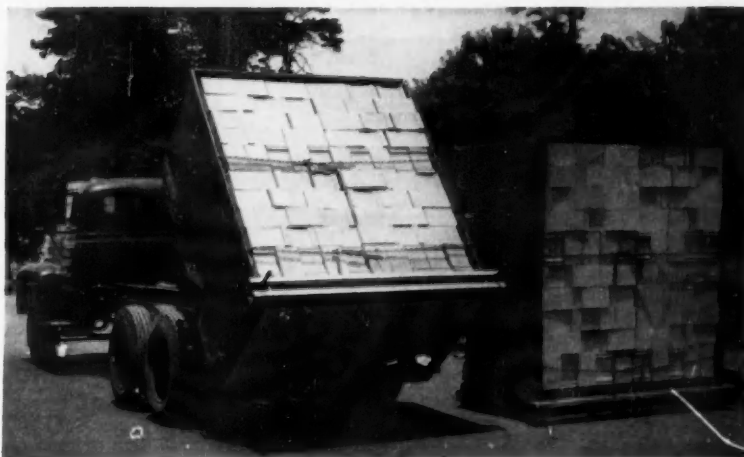
A unit relatively new to the block shipping field is the Pack-Hauler, available in single or tandem units, with capacities of 864 block in the tandem, 432 in the single.

In operation, the truck body lowers over a stacked cube of block. A hydraulic squeeze holds the bottom of the cube while the body moves back into place on the truck. In unloading, the process is just reversed.

In the tandem operation, the end body is unloaded completely from the truck; the truck moves and empties the second unit; then replaces the end unit. The Pack-Hauler unit can be mounted on any standard truck of sufficient carrying capacity and of proper dimension.

American Truck Body Co., P. O. Box 1391, Martinsville, Va.

Enter J37 on Inquiry Card



Equipment and Material . . .

Longer Life For Agitator Shafts

The life of agitator pulley shafts and agitator back shafts has been increased considerably by Bergen with a new method of manufacture.

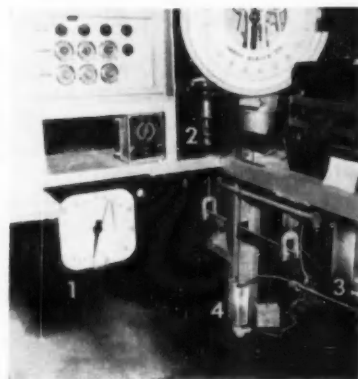
Since it has been normal for wear to appear first on the bearing journals of these shafts, this sometimes

led to the shafts being discarded despite the rest of the shaft being in still useable condition.

Bergen has overcome this problem by lathe-turning the shaft ends and pressing on a hardened sleeve which, Bergen says, resists wear and makes the shafts last longer.

Bergen Machine & Tool Co., Inc., 189 Franklin Ave., Nutley 10, N. J.

Enter J38 on Inquiry Card



Moisture Matic Compensation System

A completely automatic moisture compensating system for batching concrete is featured in the new catalog of Concrete Controls Corp. The Moisture Matic Compensator system, shown above, indicates, records and compensates for variations in moisture content of both fine and coarse aggregates by making up a liquid counterweight which goes into the scale while the aggregates are being weighed.

Much other equipment, from slump meters and recording thermometers to silo heaters, is also described in the catalog. A complete description of the MMCS system, with illustrations, is given as the main part of the catalog.

Concrete Controls Corp., 1012 E. Geneva Road, Wheaton, Ill.

Enter J39 on Inquiry Card

CUT Labor Costs 1/3



Ready for setting up next cube.

Operating Features

- Cuts down on chipping
- No need for wood pallets
- Requires no maintenance
- Contains needle bearings; 5" channel
- Closed cap system with 2 hydraulic cylinders
- Weight approximately 325 pounds

FORRER'S

Division of Spray-O-Bond Co.
2225 N. Humboldt
Milwaukee 12, Wisconsin

Forrer's PALLETIER

PAYS for ITSELF in 3 MONTHS — You save enough on labor costs to pay for your Palletier in 3 months . . . and make money every day thereafter.

Forrer's Palletier eliminates need to turn blocks by hand . . . saves back-breaking labor and reduces chipping. Automatically sets up for 3 consecutive cubes.

Here's the ideal labor saver for all concrete block plants.

STANDARD SIZES

Size A-48 x 48
Size B-40 x 48...\$449.50 each
f.o.b. factory

Sizes 48 x 64, 48 x 72 or other sizes — prices available on request.



ADVANTAGES

- Eliminates 1/2 man — per day . . . per cubing station.
- One man can cube the output of a (8" plain) block machine.
- Eliminates "back-breaking" kneeling and block turning.



Above — Full load unit.
Upper right — Palletier automatically lowers with bases for 3 cubes in position.
Right — Ready for setting up next cube.



Polycon Plastic Molds

Now at a new address, Polycon has recently introduced three new alphabets of letters to their line of plastic molds.

Other molds available include patio stone molds, a wall stone system, corner stones, and such novelties as ash trays and book ends.

G. A. Rogge Co., Box 237, Marinette, Wis.

Enter J40 on Inquiry Card



Power Buggy

A new model of the Whiteman Walk-or-Ride Power Buggy features an automatic speed changer which varies the drive ratio automatically to give greater pulling power, or greater speed, as needed.

For example, when the Buggy starts uphill, a lower drive ratio automatically takes hold for more pulling power. The only gear shifting is for reverse. The machine shown has a capacity of 11 cu. ft. of concrete, has front wheel drive, and is known as the WSB-11.

Whiteman Mfg. Co., 13020 Pierce St., Pacoima, Calif.

Enter J41 on Inquiry Card

Form-Crete Products

New casting forms and developments that were specially designed to minimize the time spent in stripping, cleaning and resetting forms between castings are shown in the products illustrated in the Form-Crete all steel casting form catalog recently published.

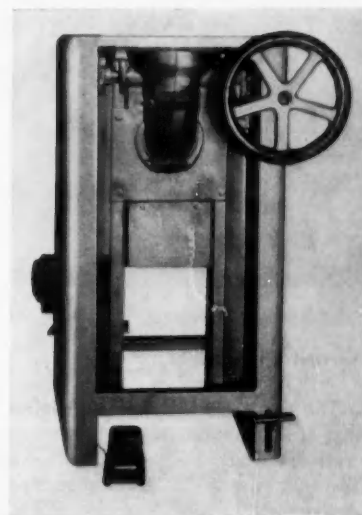
One new product shown is the Form Handling Frame that will strip or re-position side forms in one quick action. Another new design idea is the Form-Lock, a method that uses the natural flexing ability of the metal to quickly strip forms from concrete.

Form-Crete Dept., Food Machinery & Chemical Corp., P.O. Box 1718, Lakeland, Fla.

Enter J42 on Inquiry Card

Concrete Elbows

Four and six inch concrete elbows reportedly can now be made in seconds with a new elbow machine. The machine, using a high amplitude



and high frequency vibrator, has a one-man operation, with the vibrator eliminating hand tamping. The TEL-6 machine makes one-quarter and one-eighth bends in both 4" and 6" bell and spigot type pipe.

Texas Pipe Machinery Corp., P. O. Box 11085, Houston 16, Tex.

Enter P43 on Inquiry Card

put the *Erickson* "workhorse team" to work in your plant!

ERICKSON FK-60
FORK LIFT TRUCK



The ideal truck for the concrete industry—equipped with Side-shifter, Triple Lift Mast and Cubing Forks. Ericksons have a proven 30-year record for low-cost handling of cubed blocks in the yard—stockpiling, loading and unloading delivery trucks.

Here's the pair of Ericksons that have proven themselves the BACKBONE OF BLOCK PRODUCTION. Erickson's rugged dependability and long life have won its reputation as "the workhorse of lift trucks". Erickson trucks are custom-built to fit your needs.

**OVER 1,000
BLOCK PLANTS
cut costs with
*Erickson***

ERICKSON POWER LIFT TRUCKS, Inc.

221 St. Anthony Blvd. N.E. • Minneapolis 18, Minn.

ERICKSON AR-TIC-U-LATED
PLATFORM TRUCK



A revolutionary new idea for speed and maneuverability handling heavy loads in close quarters. This new Erickson is AR-TIC-U-LATED—with a pivot between platform and drive wheels which gives the advantage of 4-wheel steering. Platform beds up to 15 feet long.



Screed Vibrator

The maker of this vibrator claims that it is unaffected by caked concrete or dirt because of sealing used. The unit can be quickly mounted or dismantled when change-over is necessary.

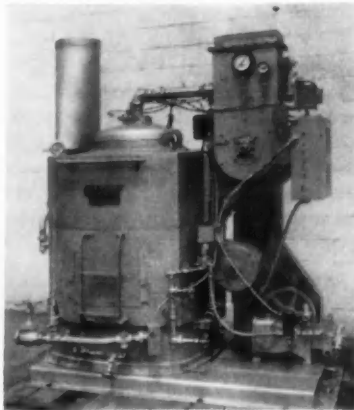
The RC employs the rotary weight shaft principle of developing vibration; is self-contained with no pulleys or belts; almost noiseless. The RC is available in 3-phase AC current only, on voltage range from 100 to 550.

Cleveland Vibrator Co., 2700 Clinton Ave., Cleveland 13, Ohio.

Enter J44 on Inquiry Card

Kwik-Steam Boilers

Catalogs and other information describing Kwik-Steam boilers for the concrete industry show five different sizes, from 40 to 150 b.h.p. The boilers can operate on fuel oil, natural or manufactured gas, or a



combination; reportedly produce steam within two minutes from a cold start. Every part of the boiler is said to be replaceable.

Littleford Bros., 457 East. Pearl St., Cincinnati 2, Ohio.

Enter J45 on Inquiry Card

Prestressed Concrete Jobs

Studies of 16 outstanding prestressed concrete projects are covered in a new 20 page publication showing the applications for quality prestressed concrete.

Photographs and job stories describe the role played by Pozzolith in helping get the high quality needed. Both pretensioned and post-tensioned projects are featured. Bulletin MBR-P-13.

The Master Builders Co., 7016 Euclid Ave., Cleveland 3, Ohio.

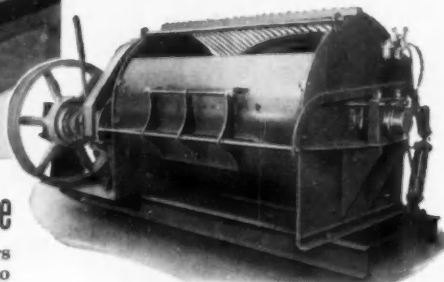
Enter J46 on Inquiry Card

Abrasive Grains Prevent Slipping

A simple, inexpensive way to make concrete surfaces non-slippery is with use of abrasive grains, added after the surface has been floated and troweled once, but while still plastic. Some 25-40 pounds of abrasive is sprinkled on 100 sq. ft. of surface during finishing and worked into the



BATCH MIXERS by BESSER



No liners or blades replaced during 4½ years service

The illustration above shows one of the two 50 Cu. Ft. Besser Batch Mixers after 4½ years of hard continuous service in a Mid-Western block plant. At no time during the 4½ years was it necessary to replace either blades or liners. Besser Mixers are built to resist toughest operating conditions. Drum shells are made of heavy rolled steel. Replaceable inside liner sections are made of Ni-Hard abrasion resisting iron. Extra heavy blade shafts prevent bending or twisting. Mixer Blade Shaft Covers eliminate build up and wear on blade shafts and permit easy cleaning. Twin spiral mixer blades are also made of Ni-Hard abrasion resisting iron. Thousands of enthusiastic users attest to Besser Mixer economy and long life performance. Ask for Bulletin No. 111-A

• Besser 50 cu. ft. mixer with motor, V-belt drive steel cut gears running in a continuous oil bath and fully enclosed anti-friction bearings. Other sizes available: 5, 12, 18, 25, 30 and 40 cu. ft.

Note: All blades and liners are made in Besser Company's own foundry and licensed by International Nickel to produce and sell abrasion resisting white iron under the trade name . . . Ni-Hard.

BESSER Company, Complete Equipment for Concrete Block Plants Alpena, Michigan, U.S.A.

surface. Two grades are available, Sparkling Non-Slip which is an iridescent black, or Regular, barely noticeable blackish-gray grains.

Frank D. Davis Co., 3285 E. 26th St., Los Angeles 23, Calif., or at Meadow Road, P.O. Box 292, Nixon, N. J.

Enter J47 on Inquiry Card

GOCorp Block Shapes

Featuring use of new color keyed pages to help locate individual sizes of units more easily, GOCorp has issued a book of block shapes. Shapes come in 8-4-6-10-12" modular units and specials, with each size using pages in a different color in the catalog, for easy location.

Specials shown include solids and bricks, chimney block, soffit block, pilaster block and others.

The pocket size book contains most of the shapes that are of general interest; additional pages that can be inserted will be issued from time to time.

Gene Olsen Corp., 401 Grace St., Adrian, Mich.

Enter J48 on Inquiry Card



Cement Valve

Stone Conveyor has introduced a new 12" cement valve that is said to provide up to 30% more open area, thus minimizing the possibility of bridging of material in the bin. Rotors are machined stainless steel, providing a smooth, non-corrosive surface. Available in manual (shown here) or air operated types.

Stone Conveyor Co., Inc., Honeoye, N. Y.

Enter J49 on Inquiry Card

Flintkote Plans Calif. Cement Plant

Flintkote Co. has announced plans for construction of \$14 million cement plant at Redding in northern California. Completion is scheduled for March, 1961. The plant will be built under the direction of, and operated by, Calaveras Cement Co., a Flintkote division.

Rated annual capacity of the new plant will be 1.5 million barrels.

Huntington Named GSM for Clanton Corp.

Navarro "Bing" Huntington has been named as new general sales manager for the Clanton Corp., of North Hollywood, Calif. For the twelve years before joining Clanton, Huntington had been with Besser Co., in Atlanta and California offices.

Concurrent with the appointment, Clanton opened a new general sales office at 5437 Laurel Canyon Boul., in North Hollywood.

Men who KNOW, say
"Put the STRESS on
AUTOMATIC

STIRRUPS and LEVELING LOOPS

Designed for dependability and convenience in the manufacture of prestressed concrete cored slabs.

CHAIRS, HANGERS, STIRRUPS

Carefully shaped #6 and #11 gauge wire forms for accurate centering and ease of use in the reinforcing of concrete joists and other pre-cast concrete products.

chair hanger short stirrup regular stirrup

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Send for prices, literature, samples TODAY!

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HUNDREDS HAVE ORDERED!

MANY HAVE RE-ORDERED ON SEEING IT!

**NEW
ENLARGED
SECOND
EDITION**

Block producers who have bought the Second Edition of William Grant's famous book are lavish in their praise of the new material included and the updating of subjects that were covered in the first edition. Many have re-ordered enough copies for each of their key people.

We suggest you order today on a money-back guarantee of satisfaction. Payment with your order please.

MANUFACTURE OF by WILLIAM GRANT CONCRETE MASONRY UNITS

More Pages • More Subjects Covered • More Illustrations Charts and Tables • More of Everything that Made the First Edition the Most Popular Book on the Subject Ever Offered the Block Producer.

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PAYMENT MUST ACCOMPANY ALL ORDERS

CMA Block Test Shows High Shear Strengths

Recent lateral load tests conducted on concrete masonry walls proved beyond question that they possess seven times the required ability to withstand shear stresses required by existing codes. The tests were conducted jointly by the State

Division of Architecture and the Concrete Masonry Association, with contributing assistance from non-member plants in the state.

Test results demonstrated conclusively that solid grouted block masonry walls possessed the ability

to adequately sustain horizontal shear loads.

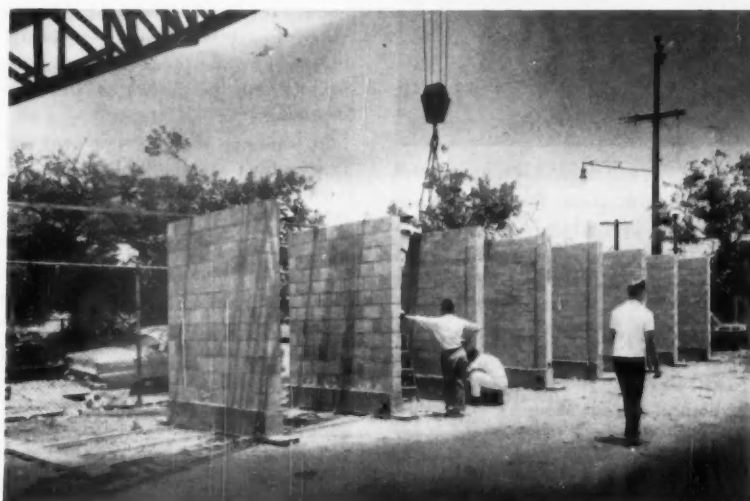
Title 21 permits 15 psi plus a 1/3 increase for lateral loads, thereby providing a safety factor of seven based upon these test results. In every case the specimens all reach ultimate load at the same order of magnitude, 141 psi average on the gross wall section.

The tests also proved there is no variation in strength between stacked and running bond.

Conclusions should justify an increase in allowable design stresses over those presently allowed by various building codes.

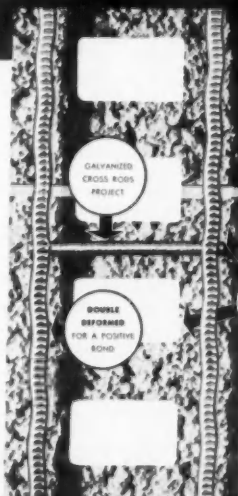
Research was conducted by the Civil Engineering Department, University of Southern California, under the supervision of Robert R. Schneider, assisted by Dr. Herbert Suer, Senior Structural Research Engineer, North American Aviation Company.

All tests were performed on full sized concrete block shear walls.



WALLY WAL-LOK SAYS:

WAL-LOK
MORTAR JOINT REINFORCING
is now **DOUBLE DEFORMED**
... BONDS BETTER THAN EVER!



LENAWEE PEERLESS, INC.

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SUCCESSORS TO ADRIAN PEERLESS, INC.

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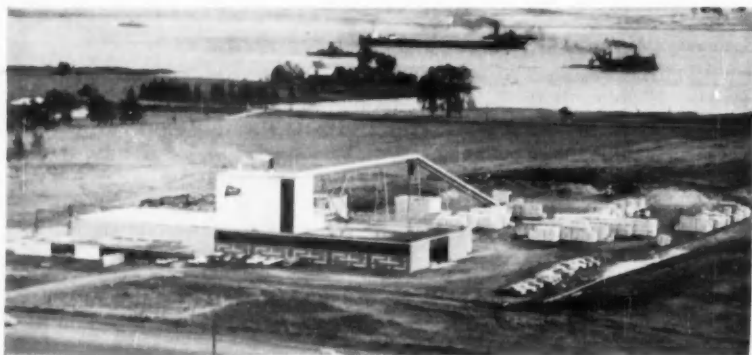
Concrete

10 DIFFERENT COLORS

- **ECONOMICAL**—costs very little extra per square foot . . .
- **DURABLE**—color all-the-way through the concrete . . .
- **PERMANENT**—to weather and sunlight . . .

For further information and color card write to
FRANK D. DAVIS CO.
 3285 E. 26th STREET LOS ANGELES 23, CALIF.
 eastern office:
 P.O. BOX 292 NIXON, NEW JERSEY

Huge Capital Concrete Plant Begins Production



One of the first new industries to locate along the St. Lawrence Seaway, Capital Concrete Products Ltd. has recently begun production. The 60 acre property is located in Matilda Township between Iroquois and Morrisburg. There are docking facilities on the Seaway and the property fronts on the new #2 Highway.

First step in a five year building program, the present plant covers 30,000 square feet plus 2,500 square

feet of office space. Design was important to the builders and the single story construction presents a clean cut, attractive appearance to the community.

Imaginative use of some of the company's products, Thoro-Clave Lightweight Block, Spectra-Glaze Structural Glazed Masonry Units and Rapidex Floor and Roof Slabs results in walls and ceilings of eye-catching beauty and design.

In August of this year, the company began production of Thoro-Clave lightweight block and autoclave masonry units at the rate of 6,000 units per day. As the company completes other stages, this production rate will increase considerably.

Installation of machinery for the manufacture of Olympic brand "Spun Concrete Poles" is presently underway and production of this product will be instituted in early December.

By summer of 1960, the firm will have added another plant on the same property and will start to produce the glazed masonry unit "Spectra-Glaze".

Over the next four years, Rapidex reinforced concrete floor and roof slabs, the full range of spun concrete pipe and precast concrete specialty items are scheduled for production. The firm will also warehouse and handle the distribution of Dur-O-wall, a trussed steel reinforcement used in masonry wall construction.

The proximity of the Seaway, railway and trucking systems, facilitates shipment to and from the new plant. Incoming loads of expanded slag from Hamilton are delivered by self-unloading ships to a temporary dock. Upon completion of the permanent dock, other raw materials required will also be shipped by water. Delivery of finished products will be by rail, truck and ship, as required.

Acclaimed as one of the best equipped concrete processing operations in North America, the machinery includes two giant autoclaves used in the curing process.

Capital Concrete Products Ltd. was formed late in 1958 by Primo Pennachetti, company president, and John Pennachetti, president of Thorold Concrete Products Ltd., after an extensive survey of the area known as the Golden Triangle.

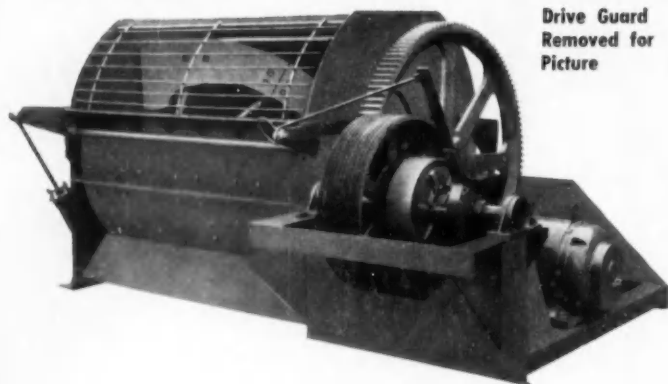
Cassville RM Plant Sold

The Cassville (Okla.) Ready Mix Concrete Co. was sold at public auction to Monroe Eagen, of Tulsa, in early November.

PRASCHAK

75 cu. ft.
MIXER

AMERICA'S POPULAR MIXERS!



Drive Guard
Removed for
Picture

8 cu. ft. less motor & drive	\$750.00
16 cu. ft. less motor & drive	\$990.00
21 cu. ft. less motor & drive	\$1,115.00
30 cu. ft. less motor & drive	\$1,480.00
50 cu. ft. complete with clutch, 30 HP motor, & drive	\$3,515.00
75 cu. ft. complete with clutch, 60 HP motor, & drive	\$5,880.00
(Compare the Mixer, not the price!)	

"THE MIXER THAT CAN TAKE IT"

Available from stock with motor,
motor mount, & drive, completely
assembled.

Available with right or left hand drive

PRASCHAK MACHINE CO. MARSHFIELD, WIS.

Allied Named Miss. Distributor for Johnson

Allied Equipment Co., of Jackson, has been named distributor in central and southern Mississippi for the C. S. Johnson line.

Dundee Names Van Velzor as Traffic Manager

William F. Van Velzor has been named traffic manager of the Dundee (Mich.) Cement Co., according to an announcement by Raymond S. Chase, sales manager.

Third Quarter Earnings Up at Lone Star

Increased earnings equal to \$1.72 per share, compared to \$1.43 in 1958, were reported in the nine months' financial statement of Lone Star Cement Corp.

Earnings in 1959 were \$13.3 million on sales totalling \$80.3 million, compared to 1958 figures of \$11 million earnings on sales of \$73.6 million.

Sika Opens New Kansas City Office

Sika Chemical Corp. has announced opening of a new district office at 2826 Main St., Kansas City, Mo. John F. Esping heads the new district office.

NC Rep Appointed By Landers-Segal

Austin M. Smith, of Morgantown, has been appointed sales representative in North Carolina for Landers-Segal Color Co.

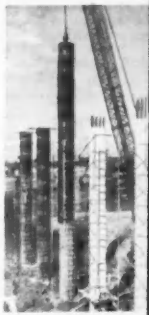
Penn-Dixie Plans Doubling of Georgia Plant Capacity

A major expansion of the Clinchfield, Ga., plant, nearly doubling capacity, is planned by Penn-Dixie Cement Co., according to an announcement by Pres. B. W. Druckenmiller.

The addition, when complete in the fall of 1960, will increase annual capacity at Clinchfield from 1.1 million barrels to 2.3 million.

NEW! EFCO BRIDGE COLUMN FORMS

EFCO Bridge Column Forms used on New Orleans overpass save time and labor. Precision construction permits quick, easy stripping as shown. Adaptable to a wide range of uses. Ideal for forming pier nosings when combined with regular EFCO Forms.



MAIL COUPON TODAY

Economy Forms Corp.
Box 128-H,
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Des Moines, Iowa

Please send information on EFCO Bridge Column Forms, and address of nearest sales office.

Name.....

Firm name.....

Address.....

City..... State.....

No Matter What SIZE...



No Matter What SHAPE...

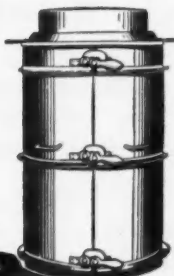


QUINN CONCRETE PIPE FORMS

Set The **STANDARD** For Producing Quality Pipe!

Over 50 years of experience go into the production of every Quinn Concrete Pipe Form. That's why the Quinn Heavy Duty form is recognized as the **STANDARD** the world over for producing quality concrete pipe at the lowest cost. Used in making pipe by vibration, spading, or tamping. Sizes for pipe 10" to 120" and larger. Tongue and groove (as shown) or bell end pipe in any length desired. No matter what size, shape, or length pipe you need, there's a Quinn pipe form made to fit your requirements. Write today for our **FREE** catalog and estimates.

Also Manufacturers of **QUINN CONCRETE PIPE MACHINES**
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Supreme BRAND Strand Chucks

FOR PRESTRESSING

Cost less
per
pull!

Good tools are good business. In prestressing, good tools are vital business!

A prestresser deals with many variables in strain, weather, technique. Whatever the conditions, the hardened tool steel Supreme Brand Strand Chucks do the job of holding wire strand best—for a longer period of time—with greater safety—and with less labor per application. All in all, Supreme costs you less per pull. Write for catalog.

Supreme Products Corporation, 2222 South Calumet Avenue, Chicago 16, Illinois.
A Division of A-S-R Products Corp.



Strand Chucks—for anchoring strand

Supreme Brand
Splice Chucks—for
joining strand of
same or different
diameters

CLASSIFIED ADS

\$10.00 per column inch. Closing date for classified advertising copy is 4th of preceding month.

FOR SALE

Winslow Bina-Batch 2-compartment scale only, in good condition. Scale for sale because Automatic scales installed. Write to:

STEINKAMP & CO., INC.
111 E. George St. Batesville, Ind.

FOR SALE

Stearns Model A Tamper Clipper Stripper block machine. 2 mold boxes, one standard 8" and one 8" rock face mold box. 1400 cast aluminum pallets. Electric motor. Write to:

STEINKAMP & CO., INC.
111 E. George St. Batesville, Ind.

FOR SALE — CONCRETE TRUCK MIXERS

(As is—subject to prior sale)
3 Jaegers, 2 to 4 yd. cap.—\$300. ea.
2 Smiths, 3 to 4 yd. cap.—\$300. ea.
1 Rev, 3 to 4 yd. cap.—\$300.
1 Rocket, 58 Model, 6 yd. cap. and 1956 Ford F-8 tandem—\$7000.
2 Challenge, 5½ yd. cap., good condition — \$1500.00 ea.
CONCRETE TRANSPORT MIXER CO.
4983 Fyler Ave. St. Louis 9, Mo.
Phone: Flanders 2-7800

PRODUCE *Better* CONCRETE PRODUCTS at Lower Cost WITH

New FIBERGLAS CONCRETE PRODUCTS FORMS BY Zeidler

Tough! Extra long lasting. Modern flexible design. Easy, trouble-free stripping. Economical, too!



11x18x36" Fan Splash Block form. Write for literature, prices and information on custom designed forms.

Zeidler CONCRETE PRODUCTS CLEAR LAKE IOWA

FOR SALE

French side pallet return and two-pallet magnetic offbearing hoist with rectifier. \$950.00 takes both. Location, Minneapolis.

BERGEN MACHINE & TOOL CO., INC.
189 Franklin Ave. Nutley, N. J.

FOR SALE

All-purpose hopper car unloader and conveyor for stockpiling coal, stone, sand, etc. Electric powered, portable. Call State 2-9493.

WILLBEE CONCRETE PRODUCTS CO.
215 W. Euclid Ave. Jackson, Michigan

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Teale Versa-Lift Model 400A hydraulic crane for truck mounting. 7,000 lb. capacity, 16 ft. boom with 6 ft. extension, concrete block fork with Miller swivel, complete with electric remote control, 35 ft. cable, outriggers, etc. Exceptional buy.

ANDERSON EQUIPMENT COMPANY
Box 427, Bridgeville, Pa. (Pittsburgh Area)
Phone: LEhigh 1-6020

FOR SALE

Complete operating block plant in West Central Illinois. Well established. Very good, modern 2-block machine with everything necessary to run plant. Good potential.

BOX A-77, care CONCRETE
400 W. Madison St., Chicago 6, Ill.

PALLET CLEANING

No Need to Shut Down — Latest Type Machine Serving the South at Your Plant.

SOUTHEASTERN PALLET CLEANING SERVICE
5920 Terry Parker Drive North
Jacksonville, Florida.

PHONE: Raymond 4-4676 or ELgin 6-7957

CLASSIFIED ADVERTISING IN CONCRETE MOVES USED EQUIPMENT FAST!

BUILD GOOD WILL

Advertising necessities for the block industry. Line pins, twigs, corner blocks, calculators. Complete catalog on request.

GERSON COMPANY
99 DEERING ROAD

MATTAPAN 26, MASS.

SWAP — SELL — BUY BLOCK MACHINES

1—12 cu. ft. Stearns Mixer with motor, like new	\$750.00
1—18 cu. ft. Stearns Skip Hoist, excellent condition complete for ..	450.00
1—18 cu. ft. Stearns mixer with motor, good condition	850.00
1—Stripper-Clipper, perfect condition, just right for specialty block	150.00
2—Truckman Platform Lifts	350.00 each
1—#7 Joltcrete, all motors, 3 mold boxes	900.00
1—#9 Joltcrete, all motors, 3 mold boxes	1200.00
1—Lith-I-Bar Twin Machine	1795.00
1200—18"x22" plain steel pallets99 each

100,000 pressed steel pallets in stock
(Send tracing or sample for quotation)

WRITE • WIRE • PHONE

Mr. McCaughey
Send in list of equipment you need. If we don't have it in stock, we usually know where we can find it at a bargain.

GENERAL ENGINES CO., INC.

Route 130 Thorofare, N.J.
Phone: Tilden 5-5400

COMPLETE BLOCK PLANT FOR SALE

George Super Vibrator Press Pac. automatic 2-block machine, Model 400A-R. Includes 2-bag mixer, 400 8", 3,000 4" and 1,000 6" aluminum pallets; air compressor; motor for mixer; 50 racks for blocks; and Truckman lift truck. May be seen or write to:

BUILDERS SUPPLY CO.
259 Wynburn Ave. P. O. Box 108
Athens, Georgia

FOR SALE

Champion drain tile machine with motor and attachments for making 4" and 6" tile. Looks and runs like new. Kelley power air-stripper block machine with pallets; looks like new, \$200.00. Miles block machine complete with motor and power tampers and overhead feeder; with pallets; good condition; \$200.00. Stearns 28 cu. ft. mixer, good condition, \$1,400.00. 30 steel 72-block racks, \$8.00 each.

J. E. MURPHY & SONS
Belton, S. Car. Phone: ED 8-3162

FOR SALE

A rear-fed Besser Vibrapac reconditioned by us and guaranteed in good operating condition; will supervise installation. Also available, one used Besser Vibrapac, one used Columbia Model 12 ABH (3-block, 12" high) and one used Columbia Model 12 AB (3-block, 8" high) both with pallet returns and magnetic offbearing hoists. These machines are reasonably priced.

BERGEN MACHINE & TOOL CO., INC.

189 Franklin Ave. Nutley, N. J.

PRESTRESSED CONCRETE PLANT FOR SALE

A completely modern plant in Austintown Township, Mahoning County, Ohio, immediately west of Youngstown, Ohio. Complete facilities, including automatic push-button control Heltzel Batch Plant, for producing beams, double tees and floor and roof slabs. 30 acres of land. For complete information address inquiries to:

THE CARBON LIMESTONE COMPANY

Lowellville, Ohio

PLAIN PALLET CLEANING

We truck our machine to your plant and supervise entire cleaning and planing off of pallet residue. No need to shut down as we will keep up with production.

EDWARD A. LOBSTEIN
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Phone: Prescott 2-1135

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Engineer, heavily experienced in manufacturing all types of precast and prestressed concrete products. Excellent opportunity for aggressive, conscientious individual.

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For decorative and structural concrete shapes. Custom made to your designs. Send sketch for cost estimate on our rugged vinyl plastisol molds. No obligation.

L & P TOOL COMPANY
2861 Sidney Ave. Cincinnati 25, Ohio

PALLETS NEED CLEANING?

Our operator trucks cleaner to your plant. Approximately 300 plain steel pallets in popular sizes cleaned per hour. No interruption in production.

FRASER PALLET CLEANING
Rine Pries-Gerard DeVolder-Glen Schroeder
P. O. Box 114 Fraser, Michigan
PHONE: PRescott 2-9722

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Cement, Chemical and Physical Laboratories

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Steel, Cement Block, Cement Brick.

Chemical Analyses of All Commercial
Products. Complete Technical Supervision
of Central Mixed Concrete Plants.

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For Cement
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LANSCO CEMENT COLORS, available in 40 ATTRACTIVE shades. Suitable for all types of concrete products. Write for our new color card, copy of "Suggestions For Using Cement Colors," and for free samples and price list.

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LANDERS-SEGAL COLOR CO.

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SUPERIOR SPECIALTY FORMS

SPECIAL FORMS DESIGNED AND BUILT TO YOUR SPECIFICATIONS

WE ALSO MANUFACTURE:

- Fence Post Forms \$15.00 Up
- Stepstone Forms 5.50 Up
- Splash Block Forms 16.00 Up
- Chimney Cap Forms 27.00 Up

CALL — WRITE — WIRE

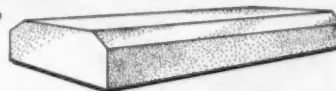
SUPERIOR CONCRETE MACHINERY CO.

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PARKING CURB

FORMS — JUST \$23.75

For 48-INCH CURB — NO. 124-04



TELEPHONE: TRINITY 8-5405

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by
WILLIAM
GRANT
\$5.00
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Block producers who have bought the Second Edition of William Grant's famous book are lavish in their praise of the new material included and the updating of subjects that were covered in the first edition. Many have re-ordered enough copies for each of their key people.

We suggest you order today on a money-back guarantee of satisfaction. Payment with your order please.

CONCRETE PUBLISHING CORP.

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**TESTED
and PROVEN**



*Photo courtesy of Aggregate Plant Products Co.,
San Antonio, Texas.*

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HOPPER SCALES**

Many leading concrete batching plants are now using Cardinal Dial and Beam Scales. Cardinal scales are extremely flexible and can easily be integrated into any special equipment. Manual, semi-automatic or fully automatic operation. Specify Cardinal. Capacities from 500 lbs. to 100,000 lbs.

For complete information write Dept. C



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TOPS FOR:**

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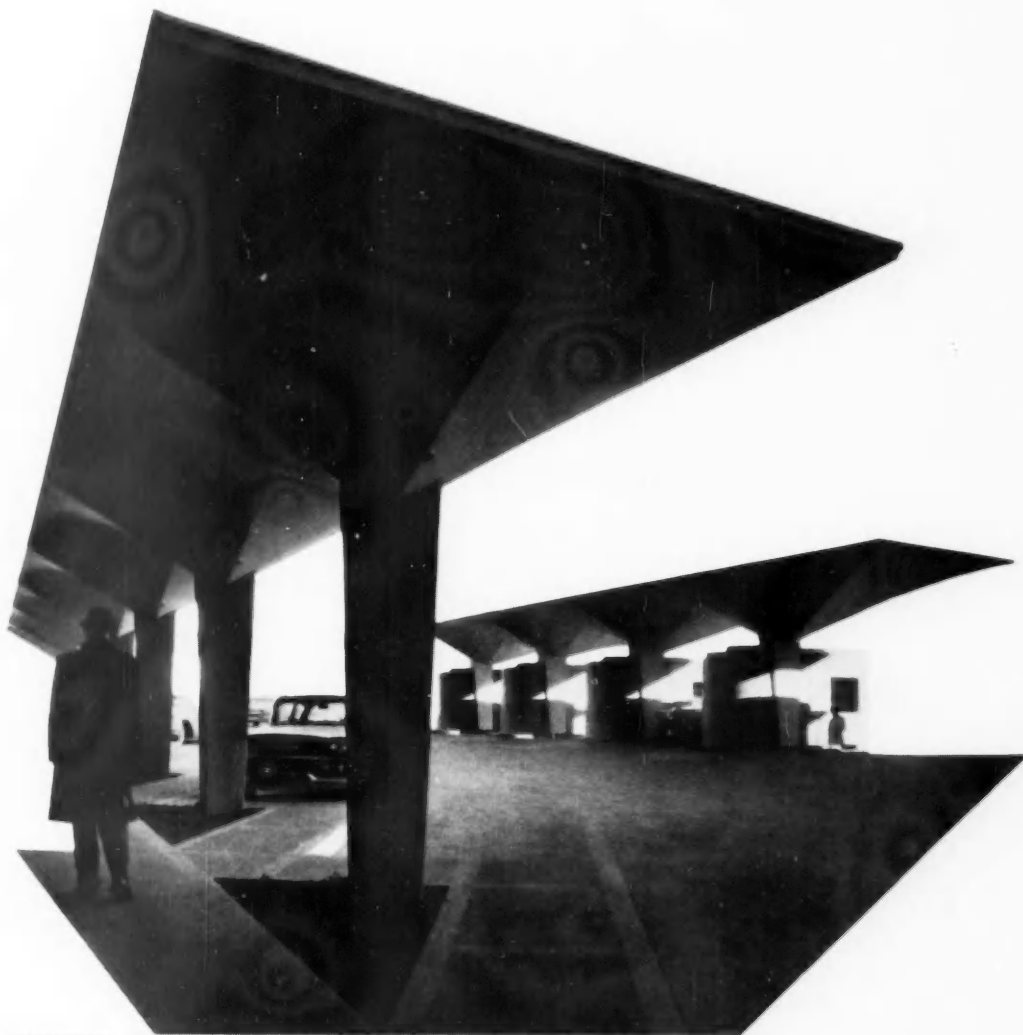
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CONCRETE PUBLISHING CORP.
400 W. Madison St. Chicago 6, Ill.**

ADVERTISER'S INDEX

J1 Automatic Spring Colling Company	33
J2 Besser Company	32
J3 Besser Company	Back Cover
J4 Cardinal Scale Manufacturing Company	40
J5 Columbia Machine, Inc.	6
J6 Cenwell & Company, E. L.	39
J7 Davis Company, Frank D.	35
J8 Dur-O-Wal Products Company	1
J9 Economy Forms Corporation	37
J10 Edick Laboratories, Inc.	14
J11 Erickson Power Lift Trucks, Inc.	31
J12 Ferrer's Products for Masonry	30
J13 Fraser Pallet Cleaning	39
J14 Gerson Company	38
J15 Jaeger Machine Company	4&5
J16 Kent Machine Company	26
J17 Landers-Segal Color Company	39
J18 Lenawee Peerless, Inc.	35
J19 Lobstein Pallet Cleaning	39
J20 L & P Tool Company	39
J21 Master Builders Company, The	Inside Front Cover
J22 Monarch Road Machinery Company	2
J23 Penn-Dixie Cement Corporation	Inside Back Cover
J24 Praschak Machine Company	36
J25 Quinn Wire & Iron Works	37
J26 Southeastern Pallet Cleaning Service	38
J27 Superior Concrete Machinery Company	39
J28 Supreme Products Corporation	37
J29 Zeldler Concrete Products	38

Banking Convenience.... **THROUGH CONCRETE**

Iowa-Des Moines National Bank's new drive-in office turns a banking chore into a pleasure. Its functional design enables bank customers to conduct their business "on-the-run", saving time, temper and parking fees. ¶ This utility has been achieved through concrete, the modern building material that molds itself to the most exacting requirements of today's leading architects and builders. ¶ Penn-Dixie cement was used in the construction of Des Moines' newest bank.



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Penn-Dixie means Permanent Dependability

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Nazareth, Pa.
Penn-Allen, Pa.
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...another exclusive Besser service devoted to helping make your operations easier and more profitable

Where can you improve your curing practice? What is your linear drying shrinkage by the Modified British method? How do your products meet the permissible moisture content when delivered?

You can get authoritative answers to these and other questions from the new, well-equipped Besser Technical Center in Alpena, Michigan. It is a division of Besser Company dedicated to the advancement of the masonry industry through the performance of research and the distribution of technical information.

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- 2. Materials and Methods Department:** Offers consultation with experienced operators and technicians in the field or laboratory on the selection, grading, proportioning, and mixing of aggregates. Conducts curing checks and routine testing. Fee depends upon project assignment.
- 3. Blockmakers' School:** Offers a series of technical courses — free to anyone interested in concrete block. Twenty technicians and instructors provide a balanced curriculum, including classes on material blending and processing, mechanical operation, electrical operation, automation, curing, cubing, and proper use of masonry units.

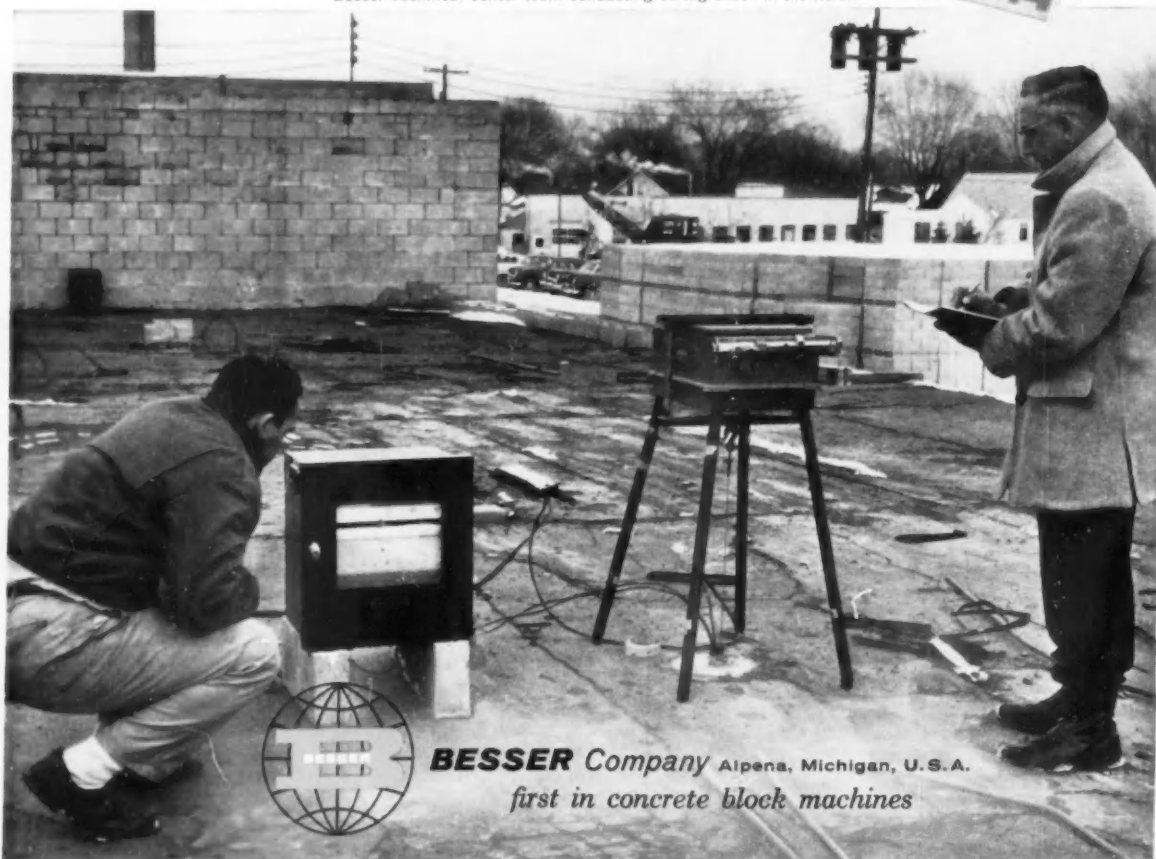
More recently a Seminar for block-plant owners and managers has been added to cover the fields of advertising, accounting fundamentals, cost savings, statement analysis, and profit planning.

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first in concrete block machines

For more information use postcard facing page 40.

